SERVICE MANUAL

BE-3D chassis

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-29C2A	RM-862	Italian	SCC-K05L-A	KV-29C2E	RM-862	Spanisi	n SCC-K06L-A
KV-29C2B	RM-862	French	SCC-K01L-A	KV-29C2K	RM-862	OIRT	SCC-K08T-A
KV-29C2D	RM-862	AEP	SCC-K07L-A	KV-29C2R	RM-862	OIRT	SCC-K08U-A





ITEM MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H	VHF: E2-E12 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 UHF: E21-E69	PAL NTSC3.58/4.43 (video input only)
French	B/G/H, D/K, L, I	L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58.4.43 (video input only)
Spanish	B/G/H, D/K	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)

MODEL	29C2A	29C2B	29C2D	29C2E	29C2K 29C2R
Power Consumption	110W	108W	108W	108W	108W

SPECIFICATIONS

Picture Tube **Super Trinitron**

Approx. 72 cm (29 inches) (Approx. 68 cm picture measured

diagonally) 110° -deflection

Rear/Front Terminals

[REAR]

- 1 21-pin Euro connector (CENELEC standard)

Inputs for audio / video signals

Inputs for RGB

Outputs for TV audio and video signals

→ 2/→ 2, 21-pin Euro connector (CENELEC standard)

Inputs for audio / video signals

Inputs for S video

Outputs for TV audio and video signals (selectable) audio outputs - phono jacks

Woofer terminals: 2-pin DIN

→ 3, Audio inputs - phono jacks -S 3, S video input - 4 pin DIN Stereo minijack - headphone jack Ω

3, Video input - phono jack

Sound output

Left/Right 2x10W (RMS) 2x20W (music power) Woofer 1x20W (RMS) 1x40W (music power) **Dimensions** 794x567x530 mm approx. Weight Approx. 46.0 kg (with woofer)

Supplied accessories

RM-862 Remote Commander (1)

Batteries R6 (2) woofer (1)

Other features

Fastext

NICAM (KV-29C2B,29C2E only)

[RM-862]

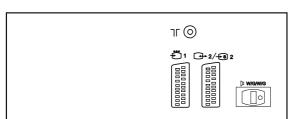
Remote control system Infrared control

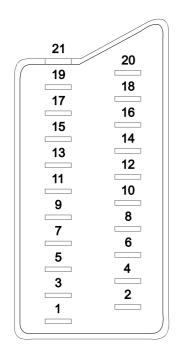
Power requirements
Dimensions
Approx. 210x56x24 mm (w/h/d)
Weight
Approx. 110g (Not including battery)

Design and specifications are subject to change without notice.

Model name	KV-29C2A	KV-29C2B	KV-29C2D	KV-29C2E	KV-29C2K KV-29C2R
PIP	OFF	OFF	OFF	OFF	OFF
-					
MPIP	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF
Rotation Coil	OFF	OFF	OFF	OFF	OFF
VM (Velocity Modulation)	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
TXT	ON	ON	ON	ON	ON
FLOF	ON	ON	ON	ON	ON
TOP	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF	OFF
Norm D/K	OFF	ON	ON	ON	ON
Norm L	OFF	ON	OFF	OFF	OFF
Language Preset	Italian	French	German	Spanish	OIRT

21 pin connector ($\stackrel{\dots}{-}$ 1, $\stackrel{\dots}{-}$ 2 / $\stackrel{-}{-}$ 3 2)





Pin No.	1	2	4	Signal	Signal Level
1	0	0	0	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2	0	0	0	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3	0	0	0	Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4	0	0	0	Ground (Audio)	
5	0	0	0	Ground (Blue)	
6	0	0	0	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7	0	•	•	Blue input	0.7 ± 3 dB, 75 ohms, positive
8	0	0	0	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF
9	0	0	0	Ground (Green)	
10	0	0	0	Open	
11	0	•	•	Green	
12	0	0	0	Open	
13	0	0	0	Ground (Red)	
14	0	0	0	Ground (Blanking)	
	0	-	_	Red input	0.7 ± 3dB, 75 ohms, positive
15	_	0	0	(S signal) croma input	0.7 ± 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms
17	0	0	0	Ground (Video output)	
18	0	0	0	Ground (Video input)	
19	0	0	0	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	0	_	-	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	_	0	0	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21	0	0	0	Common ground (plug, sheild)	

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK \(\hat{L}\) ON THE
SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS
LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE
COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS
APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

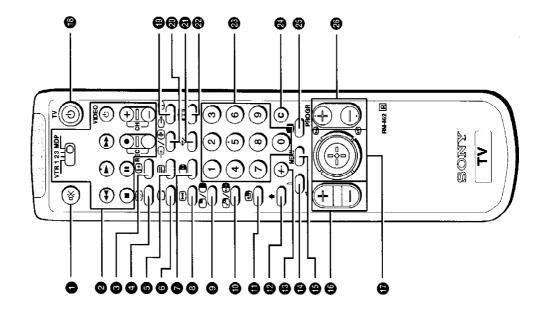
ATTENTION !!

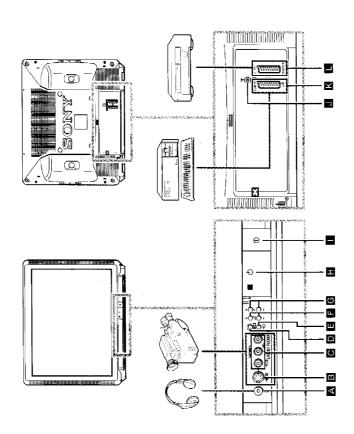
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE

SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.





Overview

Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flaps at the front and at the back of the Instruction manual for illustrations of the Remote Commander and the TV set. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

TV buttons and Terminals

Front of the set Headphones jack ■ ● ● ● ● ● ● ● Audio/video input jacks Audio/video input jacks ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	Refere	Reference and Symbol	Name Re-	Refer to Page
3 // G	Front	of the set		
3 // G		c.	Headphones jack	59
3 3 4 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		6 83	S video input jack	59
2 // G		€3, €3	Audio/video input jacks	59
2 // G			Automatic Preset button	41
2 // G		A	Input mode button	33
2 // G		7+/-	Volume control	43
2 // G		-/+,	Programme button	42
2 // G	_	4	Standby mode indicator	24
2 N/G		Α.	Main power switch	42
∏ -Ö1 G•2/-®2 ¤WG/W/G	Rearo	if the set		
-Ö-1 G-2/-®2 qw/G/w/G	P	_	Aerial socket	40
G-2/€82 □ W/G/W/G	_	Ö :1	21 pin Euro connector	29
内W/G/W/G	_	3-2/€82	21 pin Euro connector	65
		J/M/G/M/G	Woofer terminal	40

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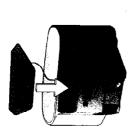
Ref	Reference and Symbol	Name	Refer to Page
•	*	Muting on/off button	42
0		VCR operation	62
	VTR 123 MDP	Video equipment selector	62
	• • • • • • • •	Buttons to operate Video equipment	62
	VIDEO Ů, CH +/-		
0	(4)	On-screen display button	42
0	©	Time display button	42
6	(h)	Teletext button	57
0	0	TV power on/TV mode button	42, 43
0	000000	No function on this set	•
•	/	Double digit entering button	42
•	4	Sound mode button	49
•	MENU	Menu on/off button	44
0	7+/-	Volume control button	42
0	(Joystick for menu selection Press to confirm selection (OK function)	44
0	TVC	TV standby button	42
9	ბ ⊚	No function on this set Teletext: reveal button	- 57
0	ଡ଼⊛	Input mode button Teletext: Freezing the subpage	60 57
0	❖	Teletext: Favourite pages button	28
8		Screen format button	42
8	1, 2, 9, 0	Number buttons	42
0	_o	Direct channel button	43
®	•	Picture mode button	49
@	PROGR +/-	Programme buttons Teletext: Page up/page down buttons	42 57
1			

Getting Started

Step 1

Connecting the Woofer

Place the woofer on top of the TV set. Connect the lead of the woofer to the terminal \P W/G/W/G \blacksquare at the rear of the set.





Step 2

Connecting the Aerial

(If you connect a VCR, skip to step 3)

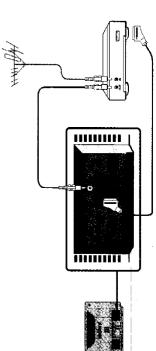
insert the aerial plug tightly into the aerial socket $\ensuremath{\mathsf{II}}$. Use a good-quality serial cable (not supplied), corresponding to the relevant regulations.

Step 3

Connecting a VCR

We recommend that you tune in the VCR signal to programme number »0«. For details, see »Presetting Channels Manually« on page 46.

See "Connecting Optional Equipment" on page 59 for more information.



Step 4

Inserting the Batteries Into the Remote Commander



Respect your environment! Dispose of used batteries in an environmentally friendly way.

Step 5

Presetting Channels Automatically

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to »Presetting Channels Manually« on page 46.

Plug into mains.

Press the power switch ① 🔳 on the TV set.

Press and hold the button 💌 🖸 on the TV set until the automatic menu is displayed and the search starts. After all available channels are stored, the normal TV picture is shown.

TV Operation

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flaps at the front and at the back of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

D	Press
Switch on	① I on IV
Switch off temporarily	\circlearrowleft \bigoplus TV is now in standby mode and indicator \circlearrowleft \blacksquare on TV lights up.
Switch on from standby mode	○ ⑥, PROGR +/- ❷ ⑥ or any number button ❷
Switch off completely	① ■ on TV To save energy, switch off your TV completely when TV is not in use.
Select programmes	PROGR +/-
Display on screen indications	(f) ②. Press again to make the indications disappear.
Adjust the volume	∠ + or - 6 F
Mute the sound	v. ♣ ♣. Press again to restore the sound.
Display the time (only available when teletext	 ② Q. Press again to make the display disappear.

TV Operation (continued)	
70	Press
View programmes in 16:9 mode	[H] (2) Press again to return to 4:3 mode.
Tune in a channel temporarily	C O once for terrestial channels (or twice for cable channels). The indication »C« (»S« for cable channels) appears. Enter the double digit number, e.g. for 4, press 0 then 4.
View video input picture (see page 60 for detailed information)	② ② ■ repeatedly until the desired video input appears. Press □ ③ to restore the TV picture.
View teletext (see page 57 for detailed information)	
Switch on	9 🖨
Select a page	three number buttons ② or ⑤ ② ⑥ (for next page) or ⑥ ④ ⑥
Use fastext	Push joystick (b) to select a colour.
Switch off	00

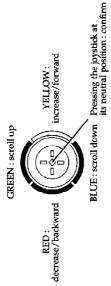
Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons.

1 Press MENU (to switch menu on/off.

MENO

2 Use the joystick **(b)** as follows:



Choosing the Menu Language

This function enables you to change the language of the menu screens.

Press power switch ① I on the TV. If the standby indicator 🖰 🖪 on the TV is lit,

2 Press the MENU button **(b)** on the remote commander.



Push joystick $\boldsymbol{\Psi}$ to blue or green to select the language you want then push to yellow.

Press the MENU button (6) to restore the normal TV picture. 4

Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 41. You can also preset channels automatically by using the remote commander as follows:

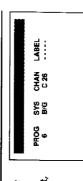
Press the MENU button (6).

to select the symbol a on the menu Push joystick (1) to blue or green screen then push to yellow.



Push to blue or green to select »Auto Programme«.

After all available channels have been preset, Push to yellow and hold until the automatic menu is displayed and the search starts. the normal TV picture is shown. 4



Presetting Channels Manually

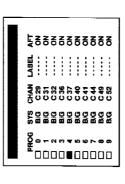
numbers. This is also convenient for allocating programme numbers to various video This function enables you to preset channels one by one to different programme input sources.

Press the MENU button 6.

to select the symbol B on the menu 2 Push joystick (10 to blue or green screen then push to yellow.



»Manual Programme« then push to 3 Push to blue or green to select yellow.



- Push to blue or green to select to which programme number you want to preset a channel then push to yellow.
- European countries or D/K for eastern European countries) or a video input Push to blue or green to select the TV broadcast system (B/G for western source (AV1, AV2 ...) then push to yellow.
- Push to blue or green to select »C« (for terrestrial channels) or »S« (for cable channels) then push to yellow.
- Select the first number digit of »CHAN« (channel) then the second number digit of »CHAN« with the number buttons

 on the remote commander
- Push joystick (1) to blue or green to search for the next available channel.

channel using the number buttons @ or push to blue or green to resume the If you want to store the channel, go to step 9. If not, select a new search. ∞

Press the joystick (D)

6

10 Repeat steps 4 to 9 to preset other channels.

Press the MENU button (to restore the normal TV picture.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

Press the MENU button (6).

 Sound Mode
 Balanca
 Balanca
 Spatial
 Spatial
 Duel Sound
 Volume Offset
 Ouel Sound **■ ヘ ় ⊕ ⊕** Push joystick (to

3 Push to blue or green to select the desired item then push to yellow.

Push to red or yellow to alter the item then press the joystick (D. For the effect of each control, see the following tables.

Repeat steps 3 and 4 to adjust the other items.

Press the MENU button (to restore the normal TV picture.

Effect PICTURE CONTROL

2 Push to red or yellow to adjust then press the joystick . 3 Push to red to return to the PICTURE CONTROL menu. • All the picture levels automatically change according to 1 Push joystick (to blue or green to select the desired the surrounding lighting level (Auto Picture Control).

Wide screen effect (16.9) Sharpness and Hue (NTSC signals only) as follows: In »User« mode, you can preset Brightness, Colour, User --> Game --> Movie --> Sports --> Live Resets picture to the factory preset levels. item then push to yellow. • Darker — | — Brighter Picture Mode Auto Picture Contrast Format Reset

Adjusting the Picture and Sound (continued)

Effect

SOUND CONTROL

Changing Modes Quickly

You can quickly change the Sound Mode or the Picture Mode without entering the "SOUND CONTROL" or the "PICTURE CONTROL" menu.

- Press ② for the picture or ♪ ② for the sound.
- 2 Push joystick (1) to blue or green to select the desired mode.
- 3 Press ② or ୬ ③ again to restore the normal TV screen.

Manual Fine-Tuning

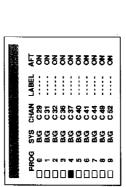
Normally, the automatic fine-tuning (AFT) function is operating.

If the picture is distorted however, you can manually fine-tune a channel to obtain a better picture reception.

Press the MENU button 6.

 \boldsymbol{Z} Push joystick $\boldsymbol{\Phi}$ to blue or green to select the symbol $\boldsymbol{\Xi}$ on the menu screen then push to yellow.

3 Push to blue or green to select »Manual Programme« then push to yellow.



4 Push to blue or green to select the programme number which corresponds to the channel you want to manually fine-tune.

5 Push to yellow repeatedly until the AFT position changes colour.

 $oldsymbol{6}$ Push to blue or green to fine-tune the channel frequency (-15 to +15).

Press the joystick •

8 Repeat steps 4 to 7 to fine-tune other channels.

9 Press the MENU button **®** to restore the normal TV picture.

Sorting Programme Positions

This function enables you to exchange the programme positions.

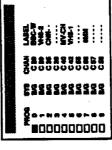
Press the MENU button 6.

 ${\bf Z}$ Push joystick ${\bf \Phi}$ to blue or green to select the symbol ${\bf \Xi}$ on the menu screen then push to yellow.

3 Push to blue or green to select »Programme Sorting« then push to yellow.



the programme position you want to 4 Push to blue or green to select exchange then push to yellow.



 $\boldsymbol{\Sigma}$ Push to blue or green to select the programme position of the channel you want exchanged then push to yellow.

Repeat steps 4 to 5 if you wish to exchange other programme positions.

7 Press the MENU button (6) to restore the normal TV picture.

Using Parental Lock

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

Press the MENU button (6).

 \boldsymbol{Z} Push joystick $\boldsymbol{\Theta}$ to blue or green to select the symbol $\boldsymbol{\Xi}$ on the menu screen then push to yellow.

3 Push to blue or green to select »Parental Lock« then push to yellow.



the programme number to indicate that this channel is now blocked. 4 Push to blue or green to select the channel you want to block The symbol **a** appears before then push to yellow.

W-CH **=**000000000

5 Repeat step 4 if you wish to block other channels.

6 Press the MENU button © to restore the normal TV picture.

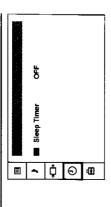
Note: To unblock, push to yellow after selecting the channel to unblock in the »Parental Lock« menu.

Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

1 Press the MENU button (6).

on the menu screen then push green to select the symbol @ Push joystick (1) to blue or to yellow. 1



3 Push to yellow.

4 Push to red or yellow to set time delay and press the joystick 👁

OFF 0:30 1:00 1:30 3:30 4:00

One minute before the TV switches into standby mode, a message is displayed on the screen.

5 Press the MENU button **(6)** to restore the normal TV picture.

Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use the function »Picture Rotation« to readjust the picture.

Press the MENU button .

to select the symbol 🖹 on the menu Push joystick (1) to blue or green screen then push to yellow.



 $\boldsymbol{3}$ Push to blue or green to select »Picture Rotation« then push to yellow.

Push to red or yellow to adjust the picture rotation then press the joystick **@**. The adjusting range is -5 to +5.

5 Press the MENU button **@** to restore the normal TV picture.

Skipping Programme Positions

with the PROGR+/-buttons. However, you can still watch the channel of the skipped This function enables you to skip unused programme positions when selecting them programme position by using the number buttons.

Press the MENU button 6.

Push joystick ${\bf 0}$ to blue or green to select the symbol ${\bf \Xi}$ on the menu screen then push to yellow.

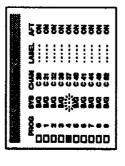
»Manual Programme« then push 3 Push to blue or green to select to yellow.



Push to blue or green to select the programme position you want to skip then push to yellow.

4

»---« appears in the »SYS« position. 5 Push to blue or green until



6 Press the joystick 4.

Repeat steps 4 to 6 to skip other programme positions.

8 Press the MENU button © to restore the normal TV picture.

Captioning a Station Name

You can however name a channel or an input video source using up to five characters Names for channels are usually automatically taken from teletext if available. (letters or numbers).

Press the MENU button (16).

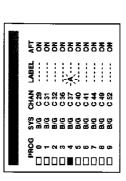
Push joystick (10 to blue or green to select the symbol (13) on the menu screen then push to yellow.

»Manual Programme« then push Push to blue or green to select to yellow.



yellow repeatedly until the first element of the »LABEL« position is highlighted. Push to blue or green to select the channel you wish to caption then push to

Push to blue or green to select a letter Select the other four characters in or number (select »-« for a blank) and push to yellow. the same way.



After selecting all the characters, press the joystick (D.

Repeat steps 4 to 6 to caption names for other channels.

Press the MENU button (a) to restore the normal TV screen.

<u> Teletext</u>

Feletext

Make sure you use a TV channel with a strong signal, otherwise teletext errors may broadcaster (usually page 100) gives you information on how to use the service. Most TV channels broadcast information via teletext. The index page of the OCCULT.

Switching Teletext on and off

Select the channel which carries the teletext service you wish to view.

If no teletext signal is broadcast, the indication P100 is displayed on a black Press 🗐 🔊 to display teletext.

The page counter searches for the page and after some seconds the page is Input three digits for the page number using the number buttons . displayed.

4 Press \bigcirc 6 to return to the normal TV picture.

Using Other Teletext Functions

To	Press
Access the next or preceding teletext page	(a) (b) for the next page or (c) (d) for the preceding page
Mix the mode	(a) When in teletext mode. Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display.
Freeze a teletext subpage	🖲 🚳 Press once again to cancel.
Reveal hidden information (e.g.: answers to a quiz)	② 🕲 Press once again to cancel.

Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

Storing pages

- 1 Use the number buttons

 to select the page you would like to store.
- 2 Press 🖘 🕲 twice.

The colour prompts at the bottom of the screen flash.

3 Push the joystick **(b)** to the desired colour to store the selected page. The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

Displaying the Favourite Pages

- 1 Press ��❷.
- 2 Push the joystick to the colour on which the desired page is stored.

Make sure you press $\Leftrightarrow \mathfrak{G}$, otherwise the normal Fastext facility operates!

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue marks on the Remote Commander. Push the joystick 🚯 to the colour mark which corresponds to the colour-coded menu. The page is displayed after some seconds.

Connecting Optional Equipment

Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the back flap page of this manual.

Symbol	Acceptable input signals	Available output signals
-81K	Normal audio/video and RGB	Audio/video from TV tuner
⊕ 2/ - ® 2 [⊕ 2/-€® 2 ■ Normal audio/video and S video Audio/video from selected source	Audio/video from selected source
⊕3,⊕3 B €83 C	①3, ←)3 B Normal audio/video and S video No output ・❸3 G	No output

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Notes on connections:

- •If the picture or sound is distorted, move the VCR away from the TV.
- •When connecting a monaural VCR, connect only the white jack to both the TV and
 - Select »TV« for output in the »VIDEO CONNECTION« menu if you connect a decoder to 🕞 2/ 🗐 2 📘 (see page 60).

Connecting Headphones

Plug in the headphones to the Ω socket ${\bf A}$ on the front of the TV.

Teletext

Selecting Input and Output Signals

This section explains how to select the output signal from 🕞 2/-🗐 2 🖪 and how to select and view the input. You can use direct access buttons 🕘 🕲 🖪 to select the input or the menu system to select input and output.

Selecting Input Signals With Direct Access Buttons

Press 🕘 🕲 🖪 repeatedly

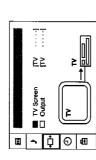
Press ○ 6 to restore the normal TV picture.

n Input Signal	Audio/video through Euro AV connector K RGB through Euro AV connector K. Audio/video through Euro AV connector S video through Euro AV connector Audio/video through the phono jacks S video through the 4 pin DIN B
Symbol on the screen	ம் தேர் இத்த இத்த

Selecting With the Video Connection Menu

Press the MENU button .

2 Push joystick (1) to blue or green to select →□→ for »Video Connection« then push to yellow.



Push to blue or green to select »TV Screen« (input source for the TV Screen) or »Output« (output source for ⊕ 2/⊕ 2 🖪) then push to yellow. Push to red or yellow repeatedly to select the desired input or output source then press the joystick .

Press the MENU button (a) to restore the normal TV picture.

Note: If you select »AUTO« for output, the output source automatically becomes the same as the desired input source.

Using AV Label Preset

This function enables you to label the input sources using up to five characters (letters or numbers).

Press the MENU button **(6)**.

Push joystick (1) to blue or green to select the symbol to yellow.

Push to blue or green to select »AV Label Preset« then push to yellow.

ı



4 Push to blue or green to select the desired input source then push to yellow.

Push to blue or green to select a letter or number then push to yellow (select »-« Select the other four characters in the same way.

After selecting all the characters, press the joystick (1). 9

Repeat steps 4 to 6 to label other input sources.

Press the MENU button (6) to restore the normal TV screen.

For Your Information

Troubleshooting

Here are some simple solutions to the problems which may affect the picture and sound.

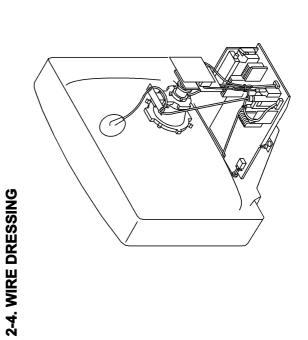
Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press ① ■ on the TV. (If ⇔ indicator ■ is on, press □ ⑤ or a programme number ⑥ on the Remote Commander.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds then turn it on again using ◎ ■.
Poor or no picture (screen is dark), but good sound	•Press MENU © to enter the »PICTURE CONTROL« menu and adjust »Contrast«, »Brightness« and »Colour«.
Poor picture quality when watching an RGB video source.	•Press - 진 🕲 🖪 repeatedly to select +ő.
Good picture but no sound	• Press $\angle l + \mathbf{(0)}$ [a] . • If 0% is displayed on the screen, press 0% (b) .
No colour for colour programmes	• Press MENU © to enter the »PICTURE CONTROL« menu, select »Reset« then press the joystick © .
Remote Commander does not function.	• Replace the batteries

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

DISASSEMBLY SECTION 2

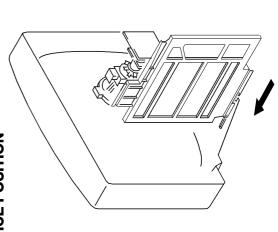
2-1. REAR COVER REMOVAL

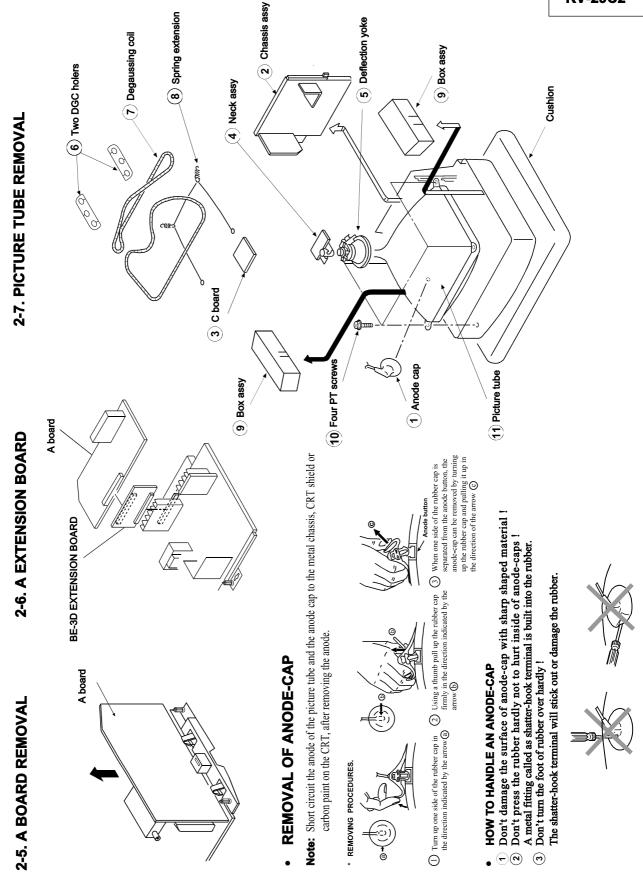
2-2. CHASSIS ASSY REMOVAL



2 Four screws (BVTP 4x16) (BVTP 4x16) 3 Rear Cover







REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET **BOTTOM PLATES.**

(1) REMOVING THE PLATES

circuit, the bottom plates fitted to the main chassis bracket require to be removed. In the event of servicing being required to the solder side of the D Board printed This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note: There are 5 plates fitted to the main bracket and secured by 4 or 6 gates. Only remove the necessary plate to gain access to the circuit board.

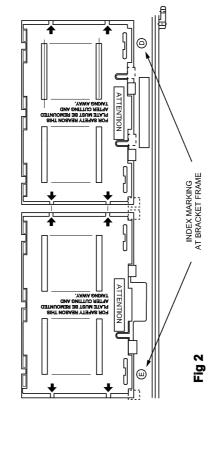
For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

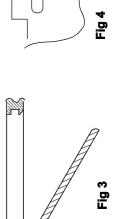
Because the plates differ in size it is important that the correct plates are refitted in their original location.

The plates are identified by markings A-B-C-D-E on their top side.

- Identify the plate by locating its marking.
- Turn the plate over noting where the marking is located.
- Locate the corresponding marking indicated on the main chassis bracket. See Fig 2. 7 7 ლ 4
 - Refit the plate as indicated in Fig 3 with the markings located next to each other.



removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out. In the event of the plates requiring to be



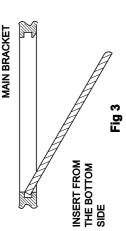


Fig 1

NOSAPETY NEMSON NETER CUTTING AND NATER CUTTING AND NATER CUTTING AND

SECTION 3 SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings:

Contrast	80%	(or remote control
	normal)	
11 D 1 1 .	50 cm	

☆ Brightness 50%

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 CONTRAST BRIGHTNESS
- 2. Position neck assy as shown in Fig.3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 3-3)
- 5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

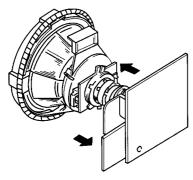
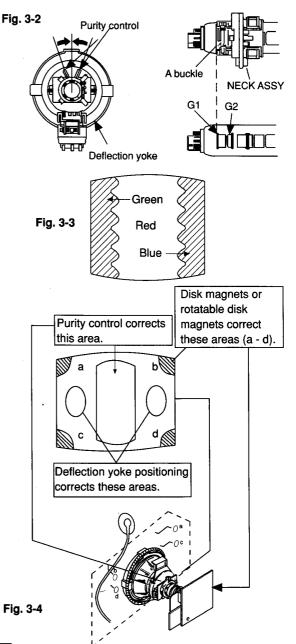


Fig. 3-1

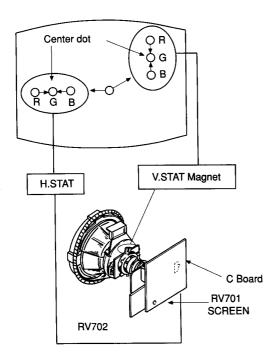


3-2. CONVERGENCE

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

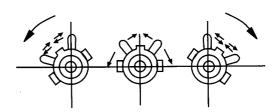
(1) Horizontal and vertical static convergence



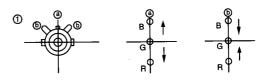
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.

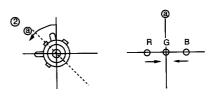
 (In this case, the H.STAT variable resistor and the
 - (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

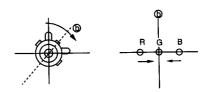
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

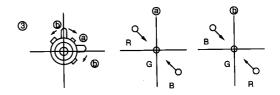


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

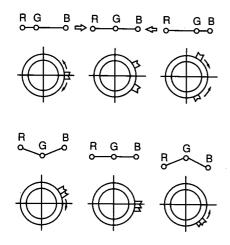




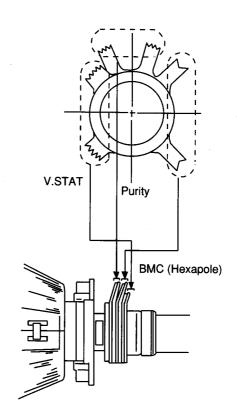




• Operation of BMC (Hexapole) Magnet



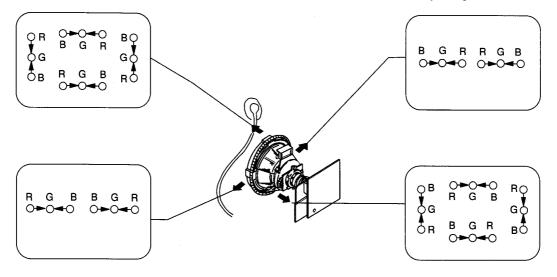
The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).



(2) Dynamic convergence adjustment.

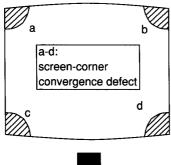
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.
- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Re-install the deflection yoke spacer.

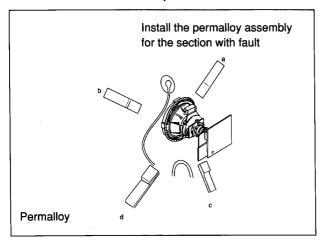


(3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.







3-3. WHITE BALANCE

G2 Setting

- 1. Switch the set into AV mode (apply no signal to the AV connectors).
- 2. Connect a Volt Meter to Test Point 1 on the A board.
- 3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

White balance adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Enter into the service mode.
- 3. Enter into Picture Adjustment service menu.
- 4. Select sub-contrast and adjust to 7.
- 5. Select the Green Drive and adjust so that the white balance becomes optimum.
- 6. Select the Blue Drive and adjust so that the white balance becomes optimum.
- 7. Press the TV button to return to TV operation.

···		
PICTURE ADJUSTMENT		
AFC mode	1	
REF position	2	
SCP BGR	1	
SCP BGF	1	
Trap Fo	0	
Sub contrast	Adj	
Sub colour	Adj	
Sub brightness	Adj	
Sub hue	Adj	
Green drive	Adj	
Blue drive	Adj	
Green cutoff	Adj	
Blue cutoff	Adj	
Gamma	0	
Pre / overshoot	0	
Y delay	3	

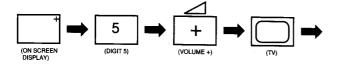
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-862.

HOW TO ENTER INTO SERVICE MODE

- 1. Turn on the main power switch of the set and enter into standby mode.
- 2. Press the following sequence of buttons on the Remote Commander.



"TT--" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press MENU on the commander to obtain the following menu on the screen.

TEST MENU > Picture adjustment Geometry Wide MSP IC status Current TV status

- 4. Move to the corresponding adjustment using the button on the commander.
- 5. Press the + button to enter the selected adjustment.
- 6. Turn off the power to quit the service mode when adjustments are completed.

PICTURE ADJUSTMENT	
AFC mode	1
REF position	3
SCP BGR	1
SCP BGF	1
Trap Fo	7
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Sub hue	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	0
Y delay	5

GEOMETRY ADJUSTMENT		
V Size	Adj	
V Position	Adj	
S Correction	Adj	
V Linearity	Adj	
H Size	Adj	
H Position	Adj	
Pin Amp	Adj	
Pin Phase	Adj	
AFC Bow	Adj	
AFC Angle	Adj	
EHT V	Adj	
EHT H	Adj	
Corner Pin	Adj	
	•	

WIDE	
V Aspect	43
V Scroll	31
Upper V Lin	0
Lower V Lin	0
Left Blanking	1
Right Blanking	11

MSP	
AGC ON/OFF	ON
Constant gain CDB	0
FM prescale FMP	36
Zwei mono-st WHI	36
Zwei st-mono WLO	18
Zwei mono-bi WMH	36
Zwei bi-mono WLO	18
Time zwei WML	41
Fawct limit	10
Fawct soll init FAW	12
Fawer tol	2
Nicam Err Max CCT	10
Nicam Err Min	0
Nicam Prescale NIP	97
Time Nicam	31
Carrier mute CRM	OFF
Audio clock ACO	HIZ
Scart prescale	25
Scart volume	64

IC STATUS (CXA2000 / CXA2040)	
CXA2000	
H lock	1
IKR	1
VNG	0
X-RAY	0
Colour system	3
CV1 Sync	1
CXA2040	
Sync sep	1
S1 mode pin	01
S2 mode pin	01
TUNER	
Tuner status	01101011

TV STATUS	
Text system	C TEXT/TV TEXT
Dolby	NO/YES
Text language set	WEST/EAST/RUSSIAN
Menu language set	WEST/EAST/RUSSIAN
Destination	B/D/U/K/L/E/A/R
Scart 16:9	OFF/ON
RGB priority	OFF/ON
Ageing	OFF/ON
Size	29/25
Colour trap sw	SECAM/ALL
Velocity mod	ON/OFF
AFT STATUS	WINDOW/HIGH/LOW
ĺ	

SUB BRIGHTNESS ADJUSTMENT

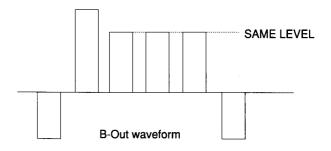
- 1. Input a Phillips pattern.
- 2. Set the picture control to minimum.
- 3. Enter into the Picture Adjustment Service Menu.
- 4. Adjust the Sub-Brightness data so that there is barely a difference between the 0 IRE and 10 IRE signal.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a black background.
- 2. Set the picture control to maximum.
- 3. Connect an oscilloscope to pin 3 of CN301 (A board).
- 4. Enter into the Picture Adjustment Service Menu.
- 5. Adjust the Sub-contrast data to obtain a black to white amplitude of 2.50 volts.

SUB COLOUR ADJUSTMENT

- 1. Receive a PAL Colour Bar video signal.
- 2. Connect an oscilloscope to pin 3 of CN301 (A board).
- 3. Enter into the Picture Adjustment Service Menu.
- 4. Adjust the sub colour data so that cyan, magenta and blue colour bars are of equal height.



NOTE: The data shown in the TV STATUS table is dependant on destination, screen size and country.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

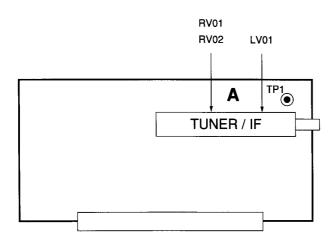
- Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 38.9 MHz.
- 3. Enter into the service mode and select "Current TVStatus".
- 4. Adjust the I.F coil (LV01) until the "AFT Status" indicates a "Window" condition.

SYSTEM L BAND 1 I.F ADJUSTMENT

- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the I.F adjustment service mode (i.e. "TT 59") to fix the I.F frequency to 34.2 MHz.
- 3. Enter into the service mode and select "Current TVStatus".
- 4. Adjust the RV02 until the "AFT Status" indicates a "Window" condition.

TUNER AGC ADJUSTMENT

- Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
- 2. Measure the voltage at test point 1 (A board).
- 3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

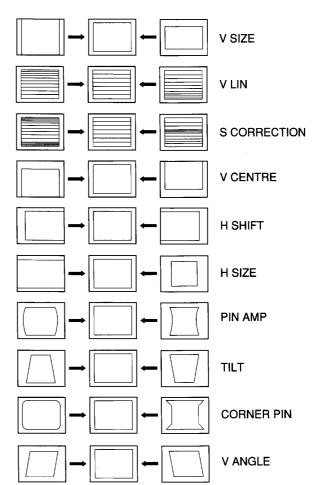


- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the Geometry Adjustment Service Menu.
- Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJUSTME	NT
V Size	Adj
V Position	Adj
S Correction	Adj
V Linearity	Adj
H Size	Adj
H Position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	Adj
EHT H	Adj
Corner Pin	Adj



4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD " TT" appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

00	Switch test mode 2 off
01	Picture maximum
02	Picture minimum
03	Volume 30%
04	Set service menu mode
05	Set production menu mode
06	Volume 80%
07	Set ageing condition
08	Set shipping condition
09	Language reset
10	No function
11	Adjustment without OSD
12	Dummy
13	Display TV configuration
14	Forced AV 6:9 mode
15	Reset LPM from ROM data
16	copy LPM to reset memory
17	Preset label for AV sources
18	RGB priority on/off
19	Clear all preset labels
20	No function
21	Sub contrast
22	Sub colour
23	Sub brightness
24	Set destination = U
25	Set destination = D
26	Set destination = B
27	Set destination = K
28	Set destination = L
29	Set destination = E
30	No function
31	Set destination =A
32	Dummy
33	Auto AGC
34	Dummy
35	Manual AGC adjust

36-40	Dummy
41	Re-initialise NVM
42	Production use only
43	Initialise geometry settings
44	Initialise all favourite pages = 100
45	Channel locks = off
46	Dealer commander mode
47	Default MSP settings
48	Restore NVM test byte
49	Delete NVM test byte
50-60	No function
61	Turn on Dolby Pro Logic mode
62	White noise to left speaker
63	White noise to right speaker
64	White noise to centre speaker
65	White noise to rear speaker
66	Set standard stereo mode
67	Set Pro Logic normal mode
68	Set Pro Logic wide mode
69	Set Pro Logic phantom mode
70	No function
71	Picture rotation on/off
72	Dolby register settings
74	No function
75	Reset picture colour balance
76	Reset picture geometry
77	Reset sound settings
78	Reset error codes in the NVM
79-99	No function

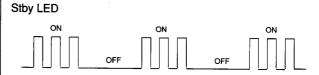
4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

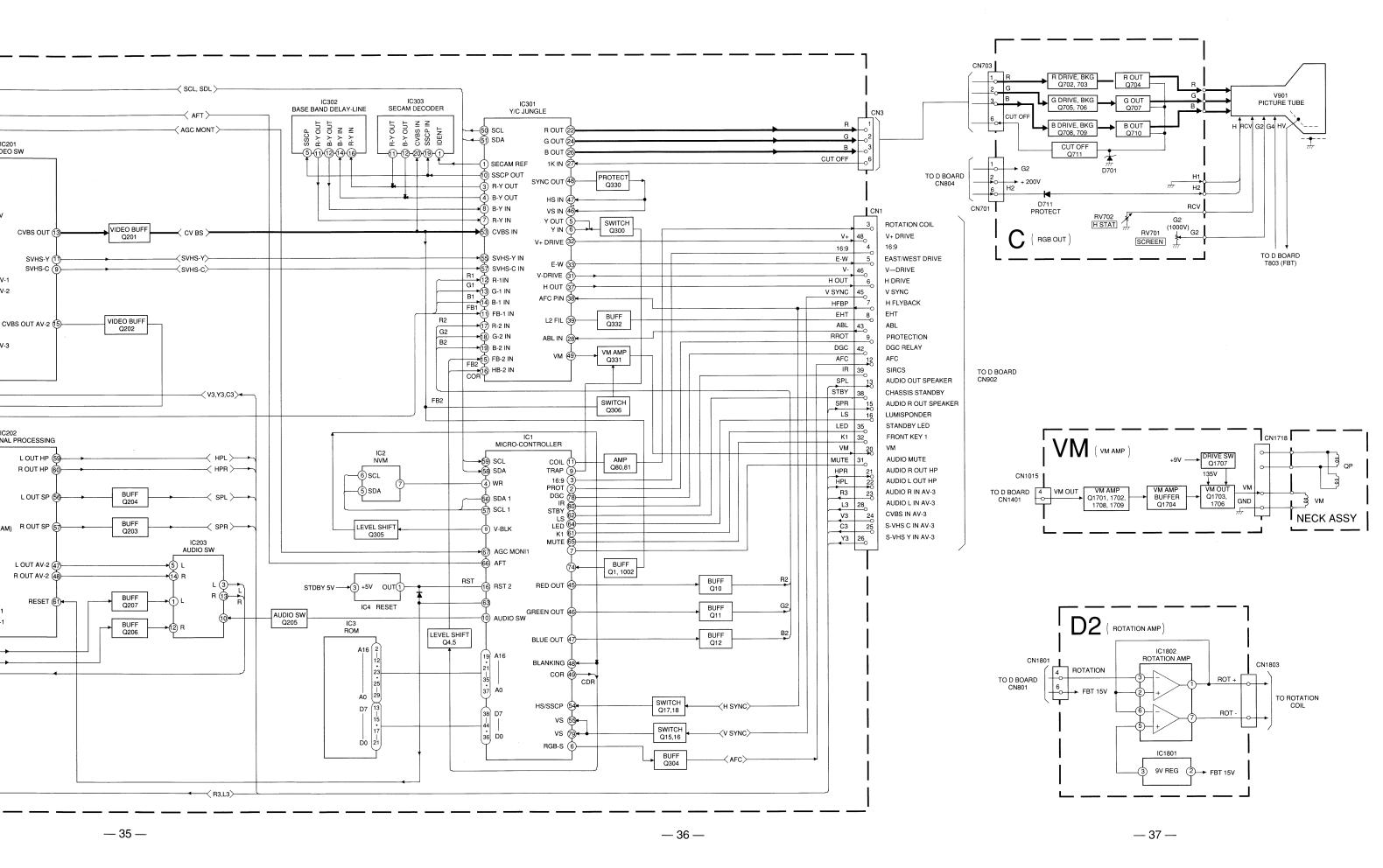
The identification of errors within the BE-3D chassis is triggered in 1 of 2 ways: - 1: Bus busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1, non fatal errors are reported with this method.

Table 1

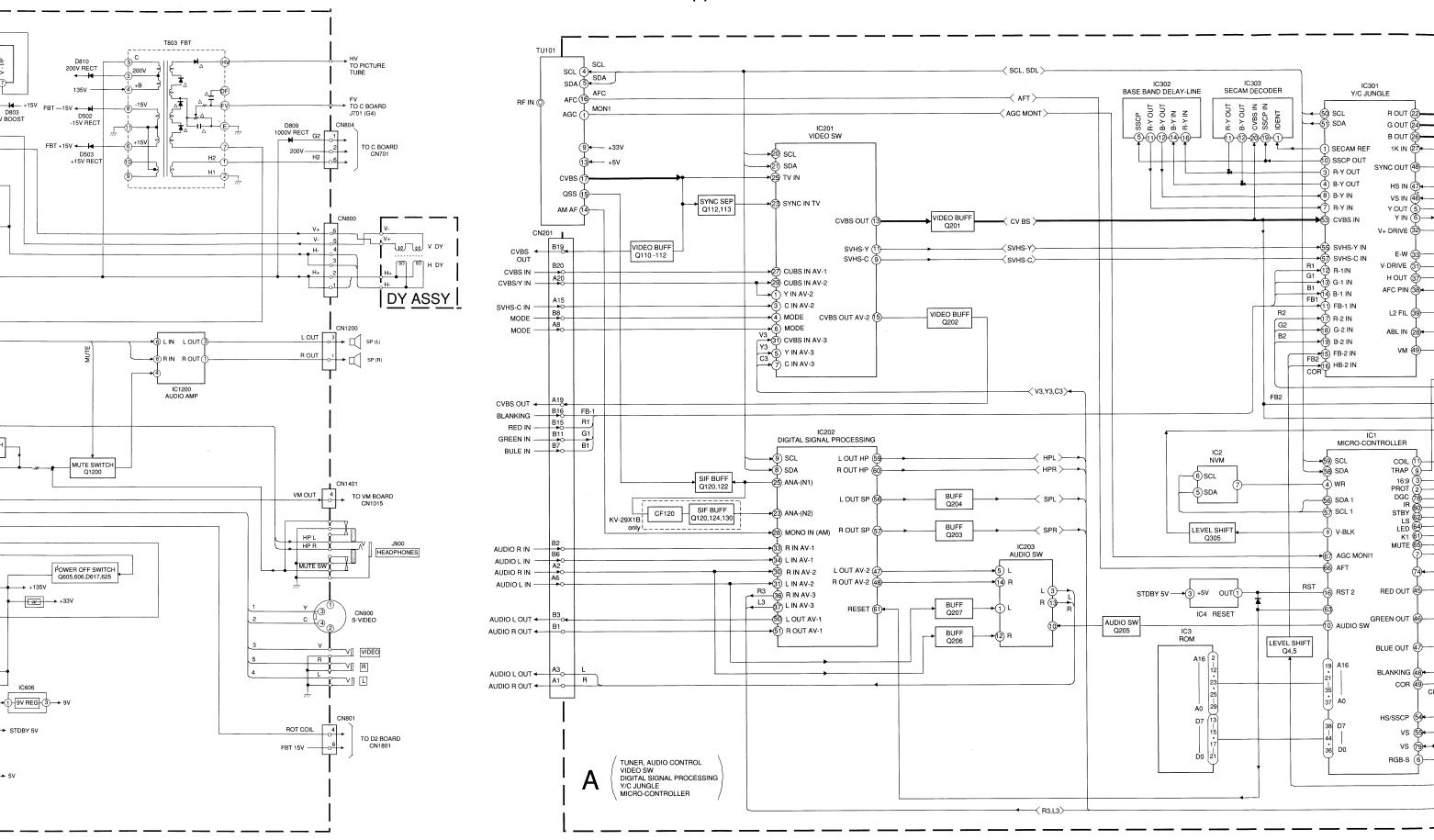
ERROR	LED ERROR COUNT
Protection circuit trip < ANY TIME >	02
IIC SCL LOW < POWER UP ONLY >	03
IIC SDA LOW < POWER UP ONLY >	04
IIC SDA & SCL LOW < POWER UP ONLY >	05
Jungle/Choroma controller no acknowledge < POWER UP ONLY >	06
Video Switch no acknowledge < POWER UP ONLY >	07
Tuner no acknowledge	08
MSP no acknowledge	09
NVM no acknowledge	10
M3L TXD LOW < POWER UP ONLY >	11
M3L RXD LOW < POWER UP ONLY >	12
M3L ENABLE LOW < POWER UP ONLY >	13
M3L TXD & RXD LOW < POWER UP ONLY >	14
Compact Text test fail < POWER UP ONLY >	15
AV switch cannot power on reset	16
Cannot initialise jungle	17
NVM acknowledge fail after initialisation	18
Multiple devices with no acknowledge < POWER UP ONLY >	19
Compacttext run-time failure	20
AVSWITCH response failure after power up	21
JUNGLE/CHROMA controller response failure after power up	22
CompactText does not respond	23

Flash Timing Example : e.g. error number 3.



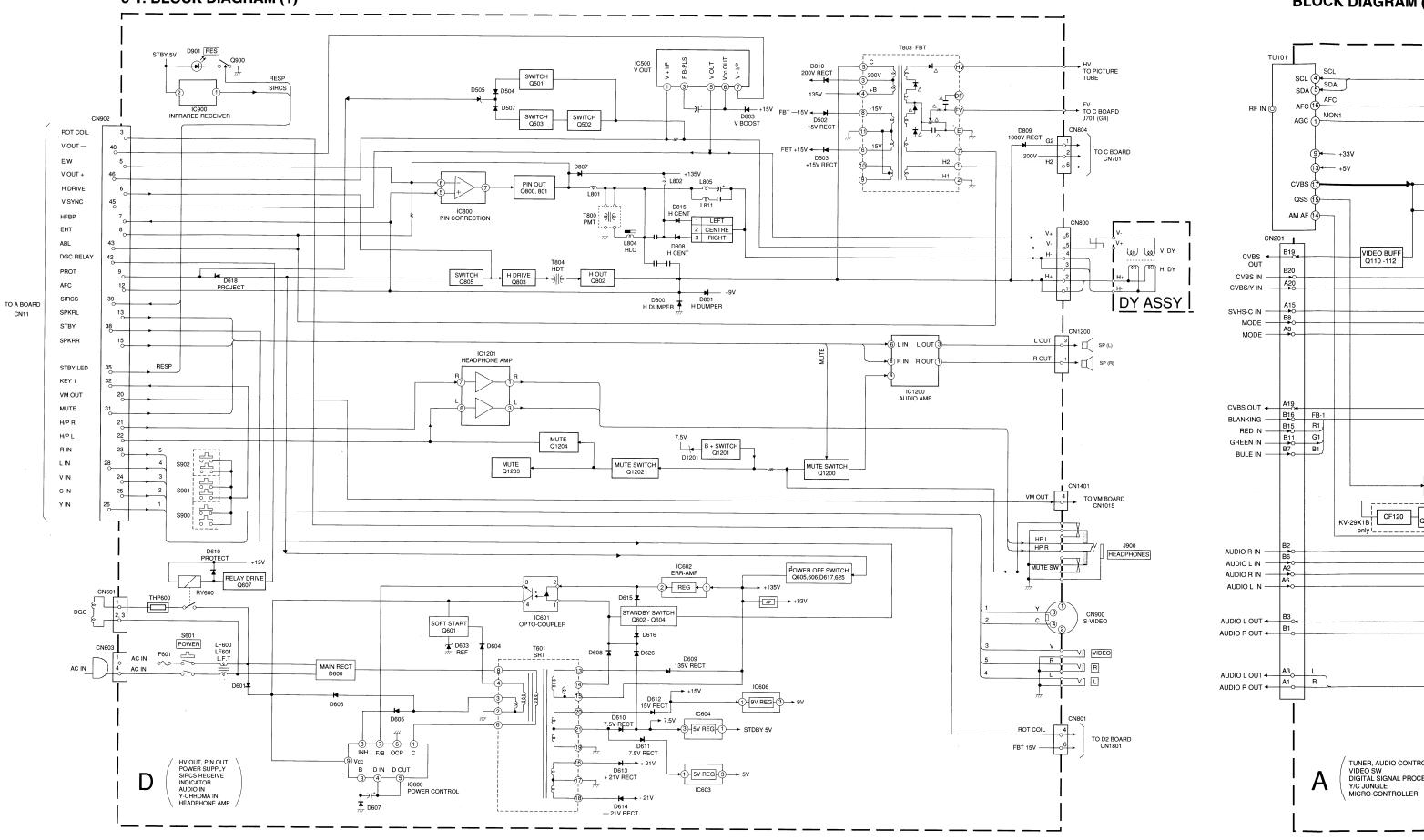


BLOCK DIAGRAM (2)

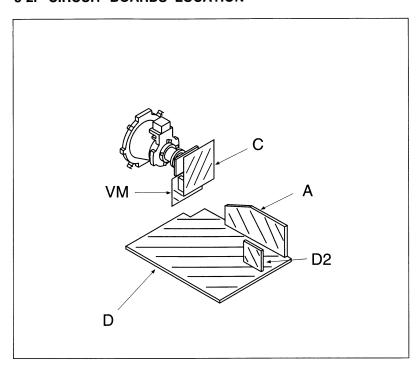


5-1. BLOCK DIAGRAM (1)

BLOCK DIAGRAM (



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

• All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000 , M = 1000K

• Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

: nonflammable resistor.: internal component.

• : panel designation, or adjustment for repair.

• All variable and adjustable resistors have characteristic curve

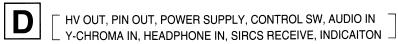
Note: Les composants identifies par une trame et une marque 🛕 sont critiques pour la securite.

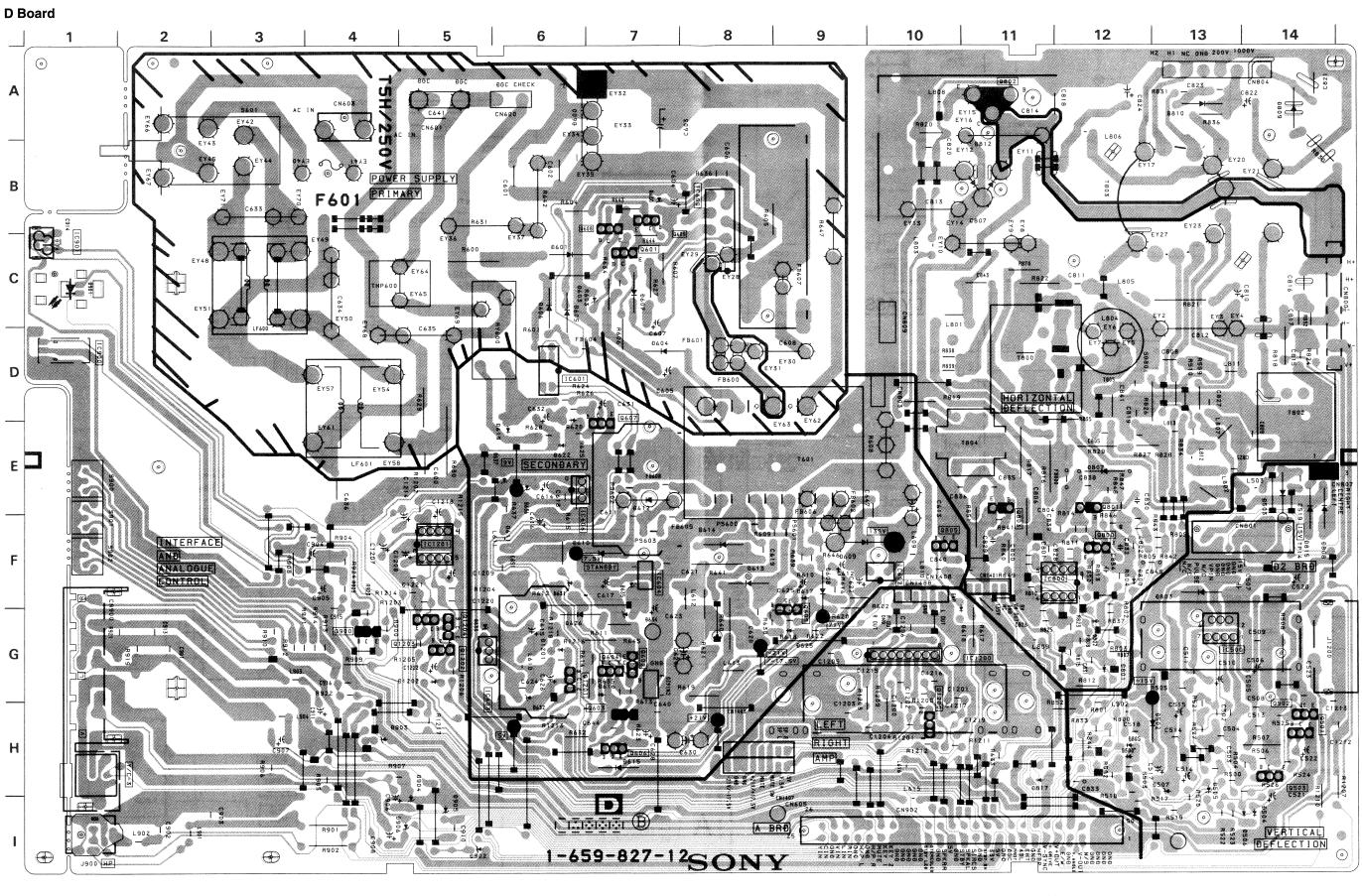
Ne les remplacer que par une piece portant le numero specifie.

Reference information

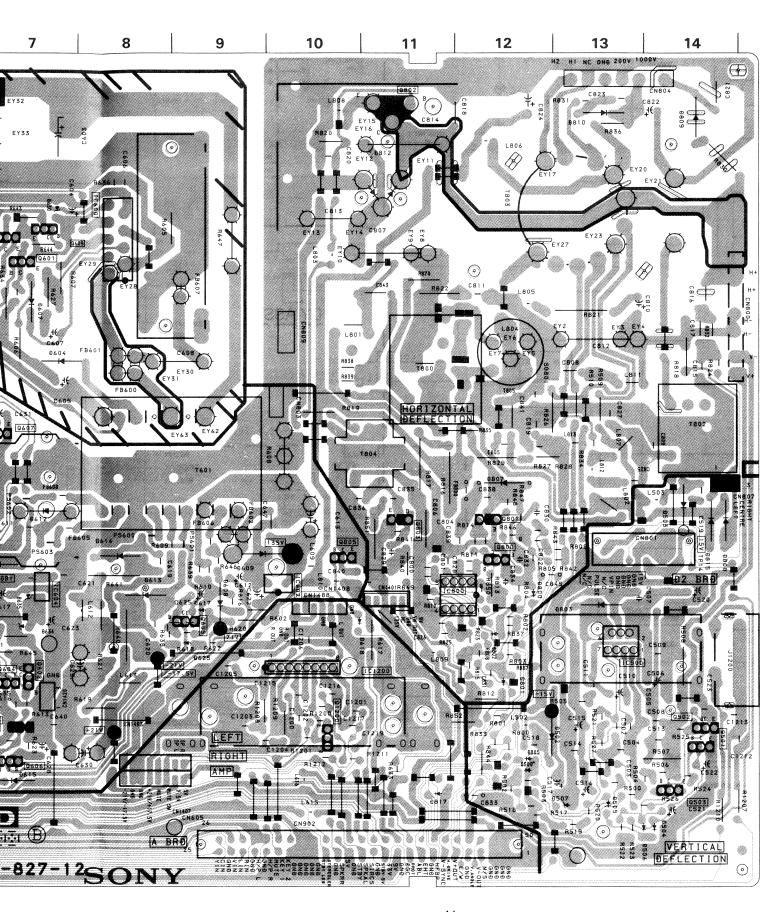
RESISTOR METAL FILM : RN : RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT NONFLAMMABLE WIREWOUND : RW × ADJUSTABLE RESISTOR COIL : LF-8L MICRO INDUCTOR CAPACITOR TANTALUM : TA : PS STYROL : PP POLYPROPYLENE : PT MYLAR : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE **BIPOLAR** : ALB : ALT HIGH TEMPERATURE HIGH RIPPLE : ALR

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10M\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)





KV-29X1



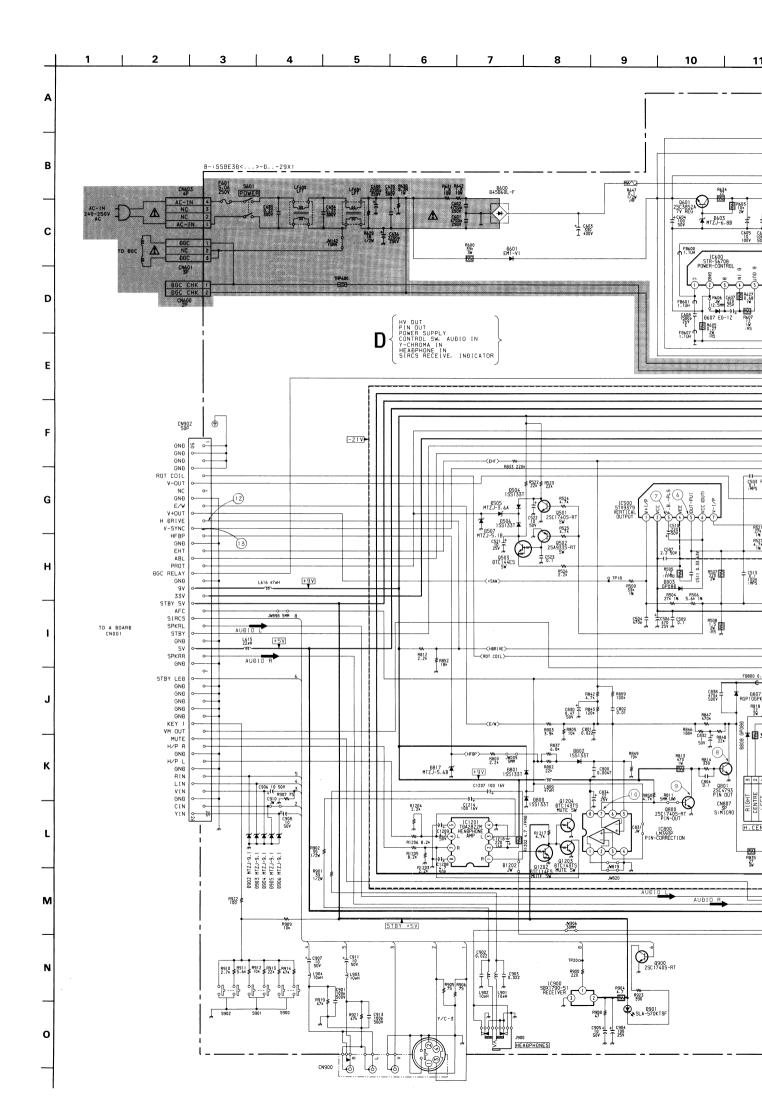


NOTE

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD

BOARD				
IC		DIODE		
IC500	G-13	D600	A-7	
IC600	B-8	D601	C-6	
IC601	D-6	D603	C-7	
IC602	F-10	D604	D-7	
IC603	G-5	D605	C-6	
IC604	F-7	D606	C-6	
IC606	E-6	D607	C-7	
IC800	F-12	D608	F-9	
IC900	D-1	D609	F-9	
IC1200	G-10	D610	F-7	
IC1201	F-5	D611	F-6	
		D612	E-7	
TRANSIS	STOR	D613	F-8	
Q501	H-14	D614	F-8	
Q502	H-14	D615	H-7	
Q503	H-14	D616	G-7	
Q601	C-7	D617	F-9	
Q602	G-7	D618	F-11	
Q603	H-7	D619	E-6	
Q604	G-7	D620	E-6	
Q605	F-9	D622	E-6	
Q606	H-7	D625	G-9	
Q607	D-7	D626	G-6	
Q800	F-12	D631	F-6	
Q801	E-12	D800	F-12	
Q802	A-11	D801	G-12	
Q803	E-11	D802	G-12	
Q805	F-10	D803	F-13	
Q900	G-4	D807	E-12	
Q1200	H-10	D808	E-14	
Q1201	G-6	D809	A-14	
Q1202	G-5	D810	A-13	
Q1203	G-5	D812	B-11	
Q1204	G-5	D815	E-14	
DIOD	E	D817	H-11	
D500	H-12	D901	C-1	
D502	H-13	D902	I-5	
D503	I-14	D903	H-4	
D504	H-11	D904	H-5	
D505	H-13	D905	I-5	
D506	I-14	D906	I-5	
D507	H-13	D1201	G-6	
		•		



13 | 14 16____ 15 | 17 | 18 | 19 20 21 <135V> | Finds | Find 1C601 TLP721 (94-ISOLATOR 9615 IC602 SE 135N ERR-AMP P638 1551331 W ■ R620 470k 1/20 R623 C628+1 R622 1/2v | 1/ 0606 DTA144ES PROTECTION R637 220 IC606 LM2940CT-9.0 +9V REG 2614 100 250 IC603 LM2940CT-5.0 C618 +5V REG R640 7.5MM C630+1 R619 S5V T L612 C629+ 5.6MH 2200 T 1 250 +I C623 220 250 195137 ÄRLÄV SRIVE ISA 680

195137 ÄRLÄV SRIVE

195137 ÄRLÄV SRIVE +21V STBY +5V -<ST0BY5V> --<5V>---+5V R633 B618 100 ISS133T --<33V>--≺ABL>-+200V +1000V +200V +135V 0.28047 J +9V 22 250v RGP10GPKG23 L806 # R836 C824 F - HV TO CRT 470, C518 B: 1 C517 B502 L502 470 RGP15GPKG23 3.3aH 25V RGP15GPKG23 LHL08 T T+ C514 C515 C514 C515 C514 C515 38612v **■** 0.47 :FPRB 470° 500 B: +TO C BOARĐ FV **W** C520 + D503 L503 470 R6P 15GPKG23 3.3 HH 25V R6P 15GPKG23 LHL08 CN1401 L813 2.2eH 9 R826 1k 1/2W +135V NC GNÐ VM OUT +9V C819 0.068 250V ∓ ≹ R827 4.7k CN803 +135V GNĐ TAB (CONTACT) H15V PULSE
GND
GND
ROT COIL
GND
FBT +15V
GND
GND
GND
GND
V-OUT JW007 5MP JW120 10HH +15V 1 C810 T 2.24F 250V TO 02 BOAR0 CN1801 R821 220 AH 3 ±c812 T0.68 T400V C808 L805 0.1 T 6811 8208 8688 OTP16 ₹ R840 25C4927-01 H-OUT R817 1.2k 3V R816 1k 3W 1894 - 1894 - 1895 - 18 DY A W. - WW C814 T0.015 C816 | C818 | C818 | C818 | C816 | C816 | C818 | C8 C817 1000p 2kV R824 #1201 MTZJ-3.9B C813 1 0.047 T C815 1 82000 1 01201 0TC143TS MUTE SW CN1420 3P BLK S:MICRO R1213 2.2x GNÐ GNÐ GNÐ - C1215 C1200 T 61.207 T 61.207 CN1408 4P :S-MICRO R1212 3.9k GNÐ L OUT GNÐ R OUT

Oldua

H1298 H1299 T 81822 T 81822 1 129 T 81822 T 81822 T 91823 T 91823

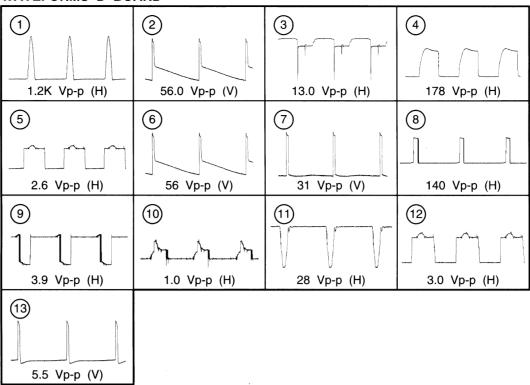
D BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table				
Ref No	B Base	C Collector	E Emitter	
Q501	-0.1	0.2	-	
Q502	0.1	-5.8	-	
Q503	-5.8	-12.0	-12.0	
Q602	72.0	7.5	72.7	
Q603	0	72.0	-	
Q604	0.7	-	-	
Q605	0.5	-	0.3	
Q606	-	-	12.0	
Q607	-	12.0	-	
Q800	0.2	3.1	-	
Q801	0.3	17.0	-	
Q802	-0.2	143.3	-	
Q803	-0.6	99.8	-	
Q805	-	3.6	-	
Q900	-	5.4	-	
Q1200	2.9	21.5	4.6	
Q1201	3.4	5.0	3.0	
Q1202	2.8	-	-	

D BOARD IC VOLTAGE TABLE

	IC Voltage Table						
Ref No	Ref No Pin No Voltage (V)						
	1	1.5					
	2	15.0					
	3	-12.3					
10500	4	-14.0					
IC500	5	0.1					
	6	15.2					
	7	1.4					
	1	170.0					
	2	-62.4					
	3	-62.6					
	4	-62.2					
IC600	5	-62.0					
	6	-62.6					
	7	-62.4					
	8	-62.0					
	9	-58.0					
	1	64.3					
IC601	2	63.0					
10001	3	-62.5					
	4	-58.6					
	1	135.0					
IC602	2	63.2					
	3	-0.1					
	3	0.9					
	5	1.5					
IC800	6	2.0					
	7	0.2					
	8	9.0					
	2	21.7					
IC1200	4	21.5					
	5	-21.7					
	1	4.0					
	2	9.0					
IC1201	3	4.0					
	5	0.5					
	8	0.5					

WAVEFORMS D BOARD

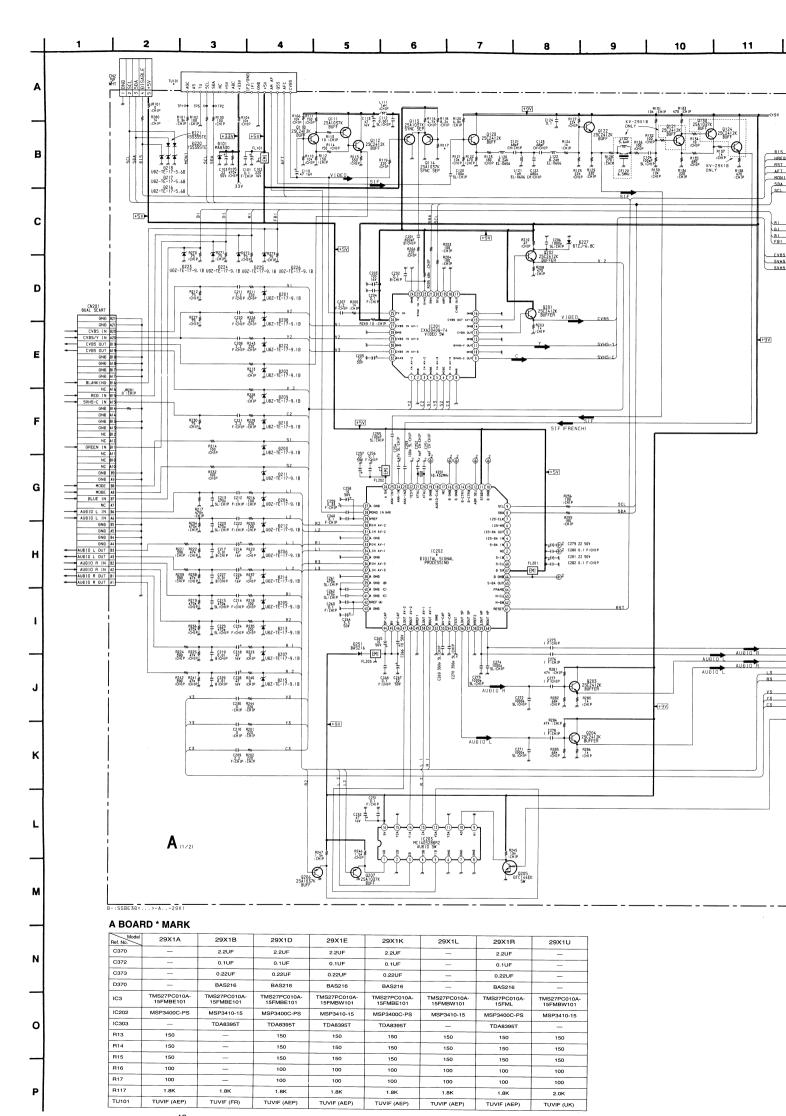


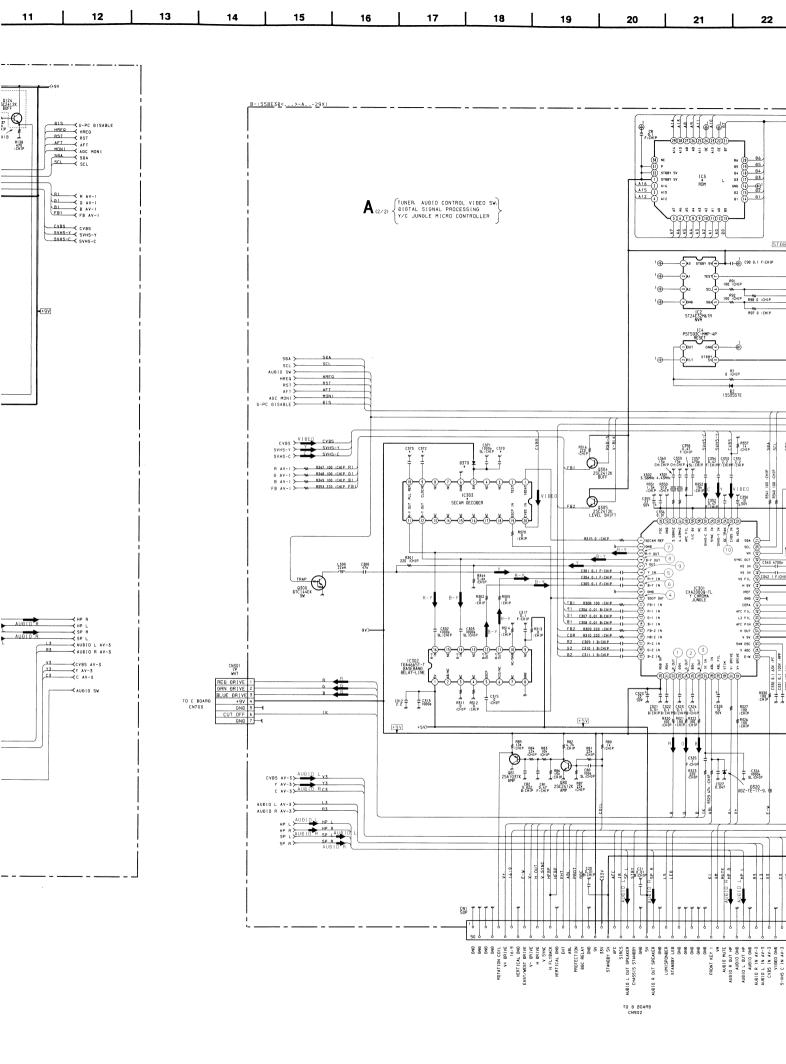
D BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table				
Ref No	B Base	C Collector	E Emitter	
Q501	-0.1	0.2	-	
Q502	0.1	-5.8	-	
Q503	-5.8	-12.0	-12.0	
Q602	72.0	7.5	72.7	
Q603	0	72.0	-	
Q604	0.7	-	-	
Q605	0.5	-	0.3	
Q606	-	-	12.0	
Q607	-	12.0	-	
Q800	0.2	3.1	-	
Q801	0.3	17.0	-	
Q802	-0.2	143.3	-	
Q803	-0.6	99.8	-	
Q805	-	3.6	-	
Q900	-	5.4	-	
Q1200	2.9	21.5	4.6	
Q1201	3.4	5.0	3.0	
Q1202	2.8	-	-	

D BOARD IC VOLTAGE TABLE

IC Voltage Table				
Ref No	Pin No	Voltage (V)		
	1	1.5		
	2	15.0		
	3	-12.3		
IC500	4	-14.0		
10000	5	0.1		
	6	15.2		
	7	1.4		
	1	170.0		
	2	-62.4		
	3	-62.6		
	4	-62.2		
IC600	5	-62.0		
	6	-62.6		
	7	-62.4		
	8	-62.0		
	9	-58.0		
	1	64.3		
IC601	2	63.0		
10001	3	-62.5		
	4	-58.6		
	1	135.0		
IC602	2	63.2		
	3	-0.1		
	3	0.9		
	5	1.5		
IC800	6	2.0		
	7	0.2		
	8	9.0		
	2	21.7		
IC1200	4	21.5		
	5	-21.7		
	1	4.0		
	2	9.0		
IC1201	3	4.0		
	5	0.5		
	8	0.5		





25Å1037K R12 470 R36 4.7* :CHIP R37 4.7* :CHIP R38 4.7* :CHIP R16 * CHIP Bt4 300 CH:CHIP 1€⊕1C2 22 50V 1€⊕1C1 0.1 F:CHIP SBAS2SOMCS-GEG MICRO-CONTROLLER CIR O. L. F.: CHI ¹@⊢⊢ 100 R76 100 :CHIP A. SW R75 100 :CHIP IRAP R74 100 :CHIP V-BLK R73 100 :CHIP MUTE C10 479 CH:CHIP L10 6.8#H :CHIP C11 479 CH:CHIP C19 0.033 H VS HS 818 100 :CHIP W VS 819 100 :CHIP W SDA1 820 100 :CHIP W SCL1 821 100 :CHIP W STOBY +5V 972 100 :CHIP RGB-S 971 100 :CHIP HREQ 970 100 :CHIP WR 869 100 :CHIP WR R63 100 : CHIP DGC DGC
R62 100 : CHIP EN EN
R61 100 : CHIP RXB RXB
R60 100 : CHIP TXB TXB GIS 470aF SLICHIP ₹ R46 82k :CHIP ⊕ 11 100»F 5L:CHIP 844 6.8× R40.≢ 5.6× R42 6.8× R48 1M 1CHIP L C44 00001 0001 878 100 ≢ CHIP # #79 220 :CHIP 912 JUDZ-TE-17-5.6B C43 R47 #11 UBZ-TE-17-5.6B C45 FICHIP CVBS STOBY +5V 5 25g2412K RS0 4.7k iCHIP 25.224.12K 25.224.12K LEVEL-SHIFT 270 \$5.25 1.CHIP CHIP Ø. BTC144EK 25023112K R52 4.7k :CHIP R53 4.7k ICHIP C348 | R342 | 0.1 | Ik | F:CHIP | CHIP BTC144EK 2630 2541 377 2641 4700 4838 1.22 | CHIP 343 4700 4838 1.22 | CHIP 342 1 F | CHIP 8337 100 | CHIP R334 470 :CHIP +9V R328 | R346 | R318 \$2.2M | \$3.9k | \$39k :CHIP | :CHIP | :CHIP 2SC2412K C347 T 0.47 F:CHIP C335 # # # # 0.1 R324 R319 C319 B:CHIP 3.9k 22k 0.033 ICHIP ICHIP B:CHIP STBY +5V

24

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AUBIO L IN AV-3
CVBS IN AV-3
VIBEO GNB
S-VHS C IN AV-3
S-VHS Y IN AV-3

A (1/2) BOARD IC VOLTAGE TABLE

	IC Voltag	je Table
Ref No	Pin No	Voltage (V)
	13	4.4
	15	4.4
	20	3.5
	21	2.7
	22	4.9
IC201	23	4.4
	24	0
	25	4.4
	26	8.8
	32	4.4
	4	2.8
	6-7	0.1
	8	3.0
	9	3.6
	11	4.7
	13	4.7
	20-21	2.4
	23	0.2
IC202	25	1.5
10202	26	4.8
	28	3.8
	29	2.6
	39-42	3.8
	44	7.1
	45	8.0
	46	7.1
	47-48	3.8
	53-54	3.8

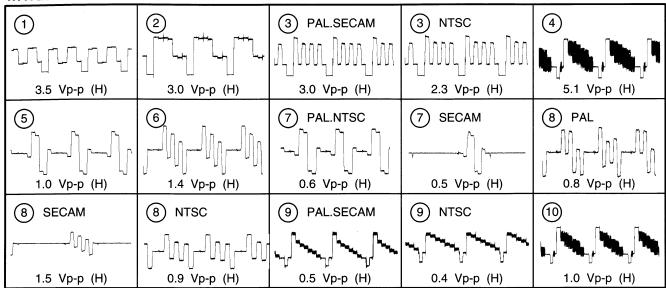
A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table						
Ref No	ef No Base Collector Emitter					
Q1	3.7	4.8	3.1			
Q4	0.1	4.8	-			
Q5	0.7	4.8	4.0			
Q15	-	4.3	-			
Q16	4.3	0.2	-			
Q17	0.4	3.5	-			
Q18	3.5	0.7	-			
Q80	2.6	2.2	-			
Q81	2.4	-	3.0			
Q304	-	4.8	-			
Q305	-	4.8	-			
Q330	4.5	-	5.1			
Q331	6.3	8.8	5.7			
Q332	3.1	8.8	2.5			
Q1001	4.4	-	-			

A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

INANSI	INANSISTOR VOLTAGE TABLE				
T	ansistor V	oltage Tab	le		
Ref No	B Base	C Collector	E Emitter		
Q110	1.8	8.2	1.2		
Q112	1.5	8.8	0.8		
Q113	1.8	-	-		
Q114	5.4	6.0			
Q120	84.3	8.8	3.7		
Q121	1.5	5.4	0.9		
Q122	5.4	8.8	4.7		
Q124		8.8	-		
Q201	4.4	8.8	3.7		
Q202	4.4	8.8	3.7		

WAVEFORMS A BOARD

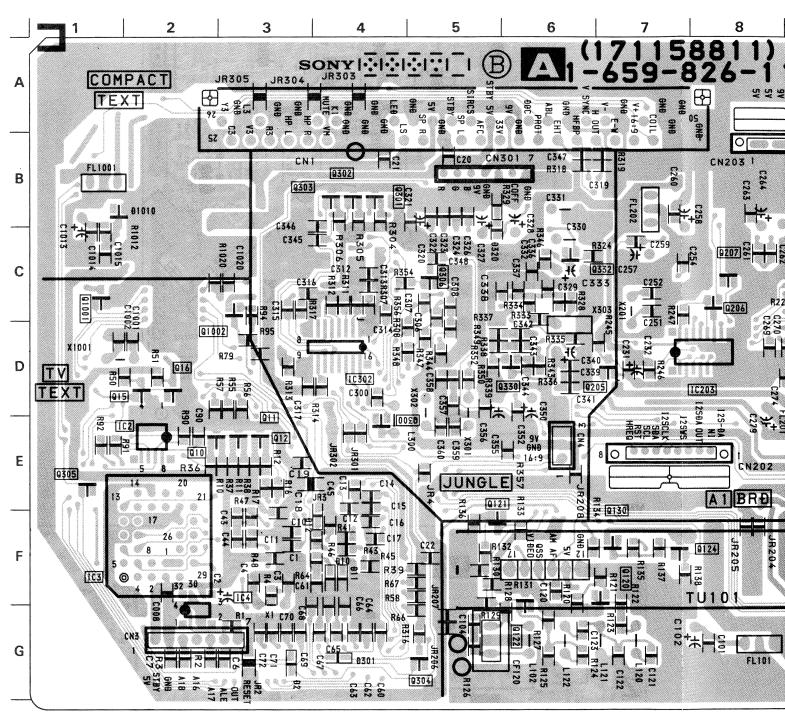


A (2/2) BOARD IC VOLTAGE TABLE

	IC Voltage Table							
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	2	3.6		5	3.6	10004	61	5.0
	3-4	4.8	İ	6	5.0	IC301	62	7.6
	5	0.5	İ	7-8	5.4		1	4.8
	7	4.8	İ	10	0.6		5	0.7
	9	4.8	İ	12-14	5.4	IC302	9	4.8
	11	2.4	l	16	4.0	10302	11-12	3.0
	13	4.8	1	17-19	5.4		14	1.3
	14-15	2.3	1	20	8.8		16	1.3
	16-17	4.8		22-23	2.2		5	8.0
	48	4.0	I	24	2.0		3.2	10
	51	4.8	I	25	2.4		11	5.6
	52-53	2.4		26	2.0	IC303	0	19
	54	0.7		27	4.0		20	3.7
	55	0.2		28	6.6		4	0.2
	56-57	4.8	29 8.8		5	0.7		
IC1	58	2.8		31-33	3.0		4	0.2
	59	3.5		34	4.0		5	0.7
	60	2.4		35	4.6	7	6	1.7
	62	0.7	IC301	36	8.8		7	1.8
	63	4.4		37	3.1		10	0.4
	65	4.8		38	3.4		11-12	4.8
	66	2.1		39	5.3	1	16	4.8
	67	2.0		40	4.2	1	17	0
	69-71	2.3		41	2.3	IC1001	21	4.8
	72	4.8		43	1.7	101001	23	3.0
	73	1.5		44	8.8		25	4.8
	74	1.2		45	2.5		56	0
	75-77	4.8		46	3.9		61	1.3
	79	0.2 .		47	3.0		62-63	1.4
	80	4.8		48	4.4	1	64	0
IC2	5-8	4.8		49	6.3		66	4.6
IC3	1	4.8		50-51	0.1		67	4.7
IC3	31-32	4.8]	53	3.9		68	4.0
IC4	1	4.8		54	5.0			
104	3	4.8		55-56	4.2			
IC301	1	1.5		58-59	8.8			
10301	3-4	5.6		60	5.3			

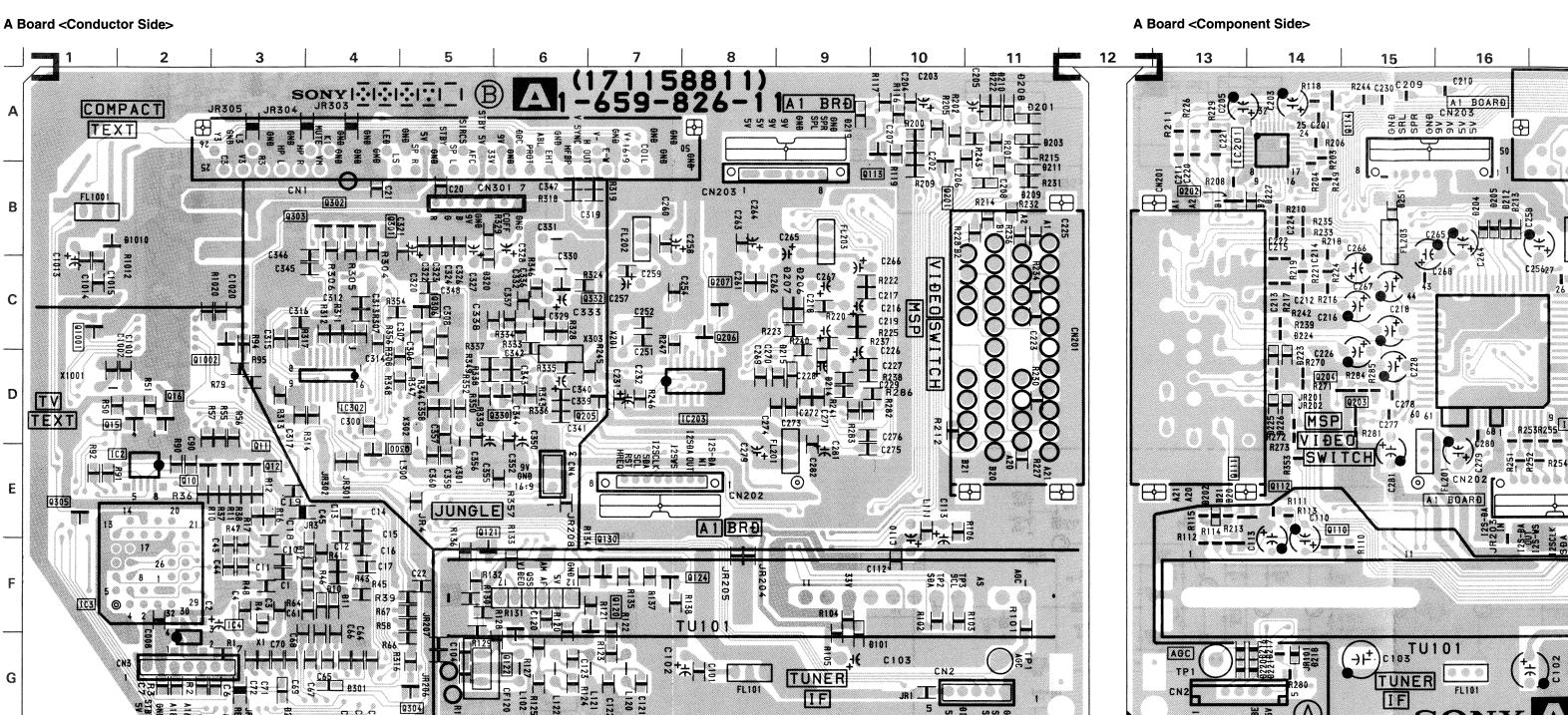


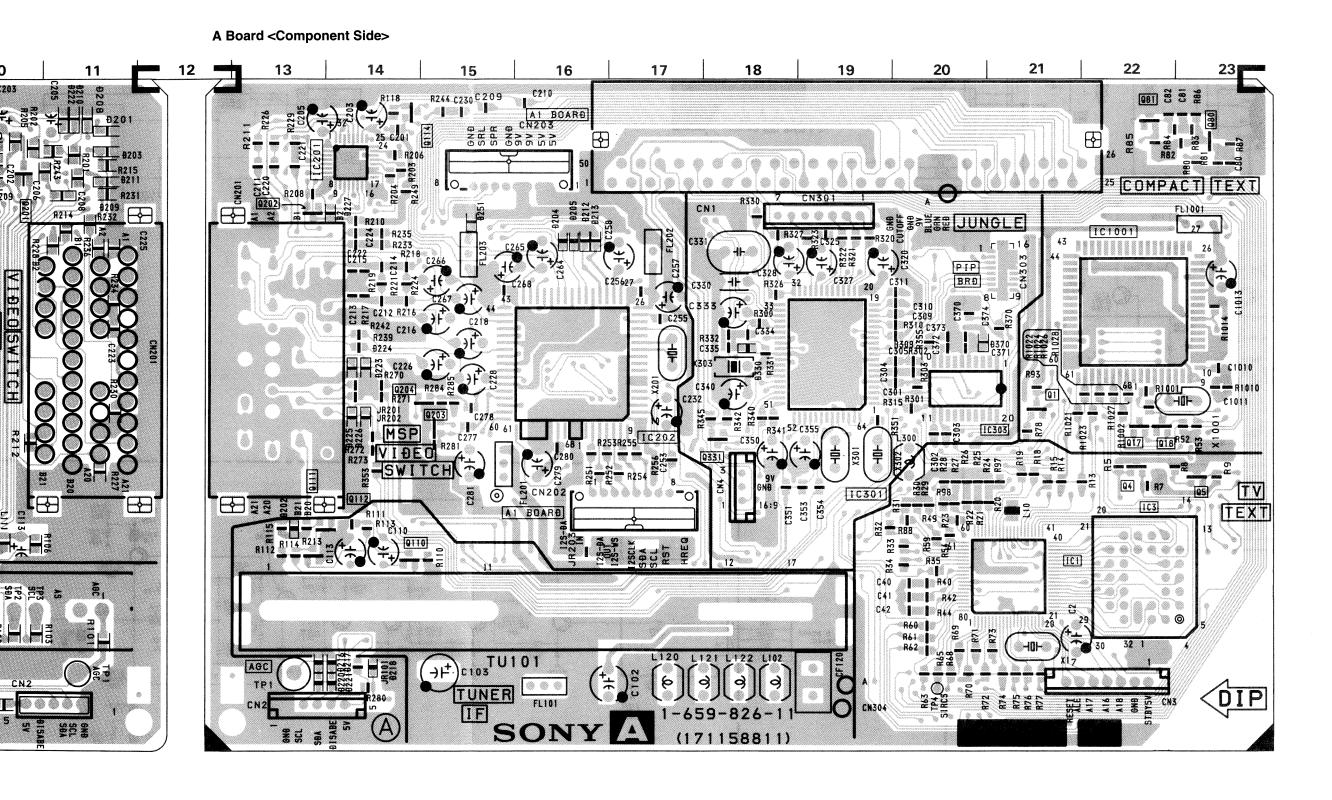
A Board < Conductor Side>





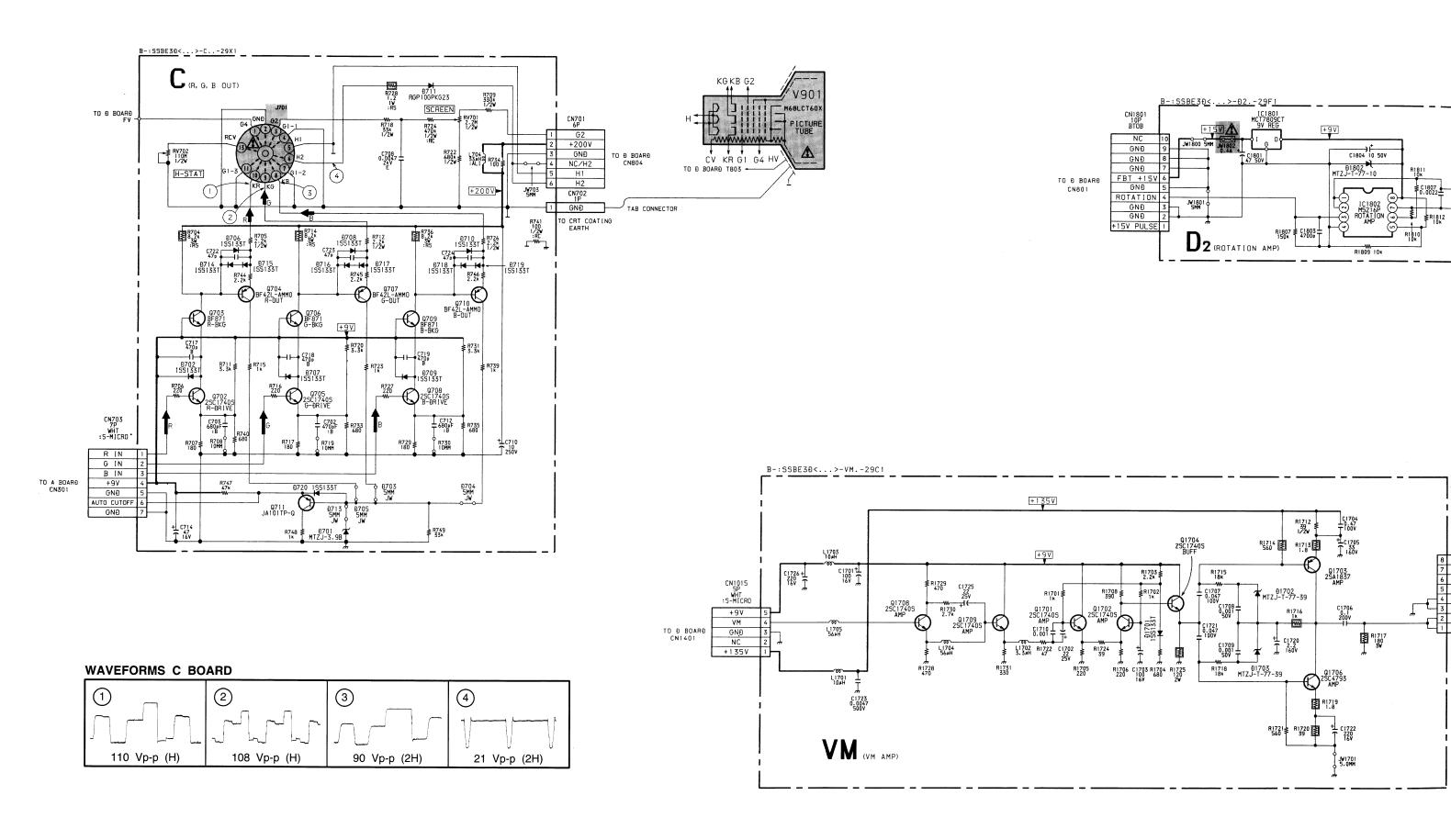
TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING TO SURVIVE SIGNAL SIGNAL PROCESSING TO SURVIVE SIGNAL SIGNAL SIGNAL SIGNAL SURVIVE SIGNAL SIG





A BOARD

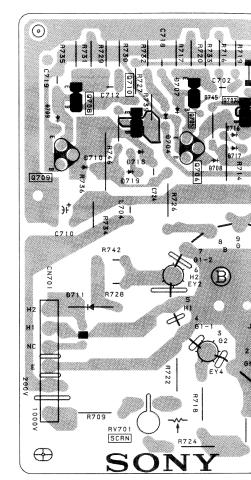
A BOARD					
10		Q305	E-1		
IC1	F-21	Q306	C-5		
IC2	E-2	Q330	D-6		
IC3	F-2	Q331	D-18		
IC4	G-2	Q332	C-6		
IC201	A-14	Q1002	C-3		
IC202	C-16	DIC	DDE		
IC203	D-8	D2	G-3		
IC301	C-19	D10	F-10		
IC302	D-4	D11	F-10		
IC303	D-21	D12	F-4		
TRANS	SISTOR	D101	F-9		
Q1	D-21	D201	A-11		
Q4	E-22	D202	E-13		
Q5	E-23	D203	A-11		
Q10	E-2	D204	B-16		
Q11	E-3	D205	B-16		
Q15	D-2	D206	C-9		
Q16	D-2	D207	C-9		
Q17	D-22	D208	A-11		
Q18	D-23	D209	B-11		
Q80	A-23	D210	A-11		
Q81	A-22	D211	B-11		
Q110	F-14	D212	B-16		
Q111	E-14	D213	B-16		
Q112	E-14	D214	D-9		
Q113	A-10	D215	D-9		
Q114	A-14	D216 .	G-14		
Q120	F-7	D217	G-14		
Q121	F-5	D218	G-14		
Q122	F-6	D220	G-14		
Q124	F-7	D221	D-14		
Q130	F-7	D222	D-14		
Q201	B-10	D223	D-14		
Q202	B-13	D224	D-14		
Q203	D-15	D225	D-14		
Q204	D-15	D226	D-14		
Q205	D-7	D227	B14		
Q206	C-8	D251	B-15		
Q207	C-8	D320	C-5		
Q300	E-4	D370	C-21		
Q304	G-5				



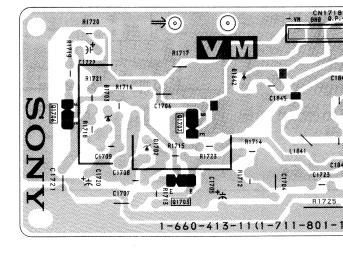


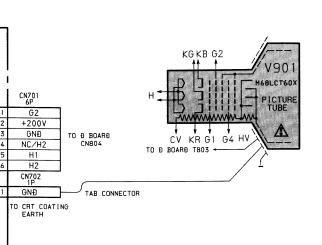


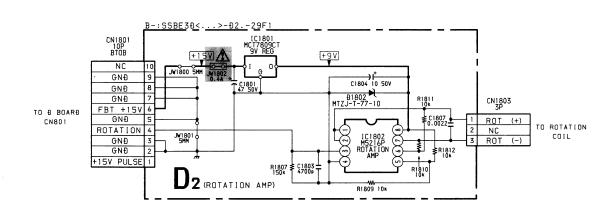


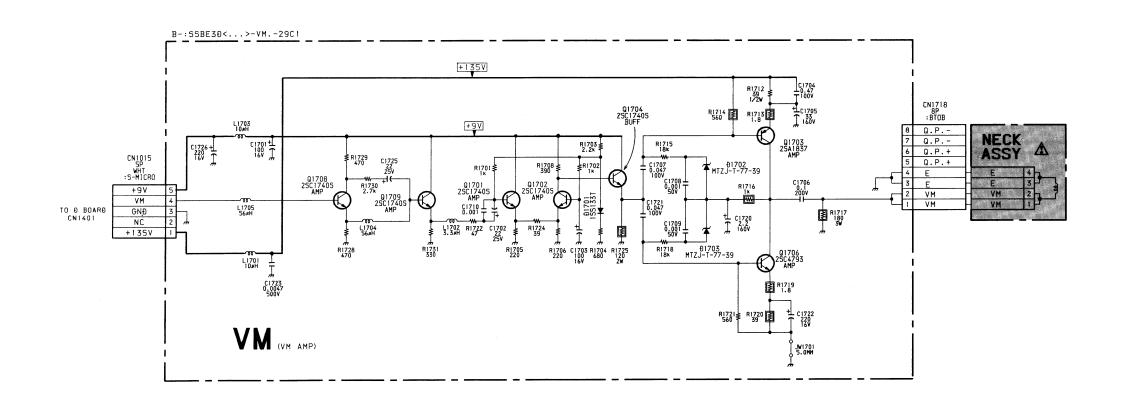


VM Board





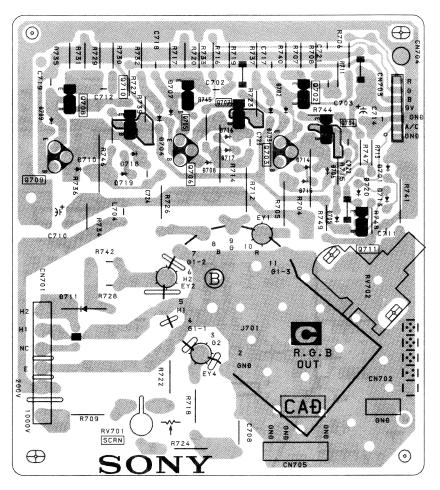




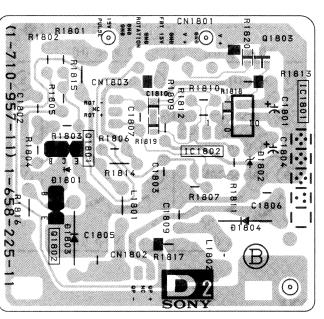


D2 [ROTATION AMP]

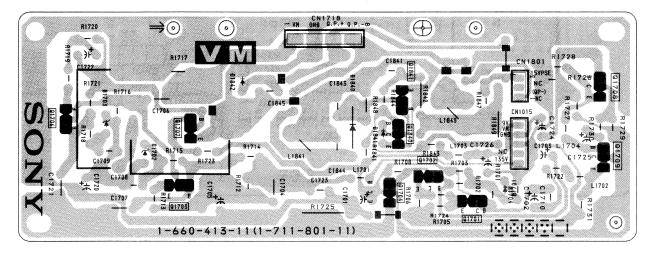
C Board



D2 Board



VM Board



C BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table				
Ref No	B Base	C Collector	E Emitter	
Q702	2.0	11.4	1.4	
Q703	12.0	168.3	11.4	
Q704	168.3	6.0	163.5	
Q705	1.7	11.4	1.2	
Q706	12.0	178.8	11.4	
Q707	178.2	6.2	173.8	
Q708	2.0	11.4	1.4	
Q709	12.0	168.3	11.4	
Q710	168.0	6.4	160.0	

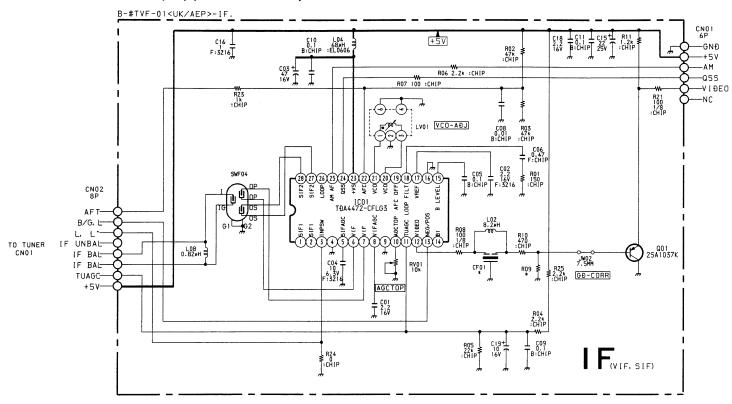
VM BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table					
Ref No	B Base	C Collector	E Emitter		
Q1701	2.5	8.8	1.8		
Q1702	2.5	5.5	1.8		
Q1703	134.3	71.8	134.8		
Q1704	5.5	8.8	4.8		
Q1706	1.0	71.8	0.4		
Q1707	0.7	-	-		
Q1708	2.9	6.6	2.2		
Q1709	2.2	8.8	1.5		
Q1840	0.6	-	-		

D2 BOARD IC VOLTAGE TABLE

IC Voltage Table							
Ref No	Pin No	Voltage (V)					
	1-2	2.8					
	3	3.0					
IC1802	5-6	4.4					
.5.502	7	6.2					
	8	9.0					

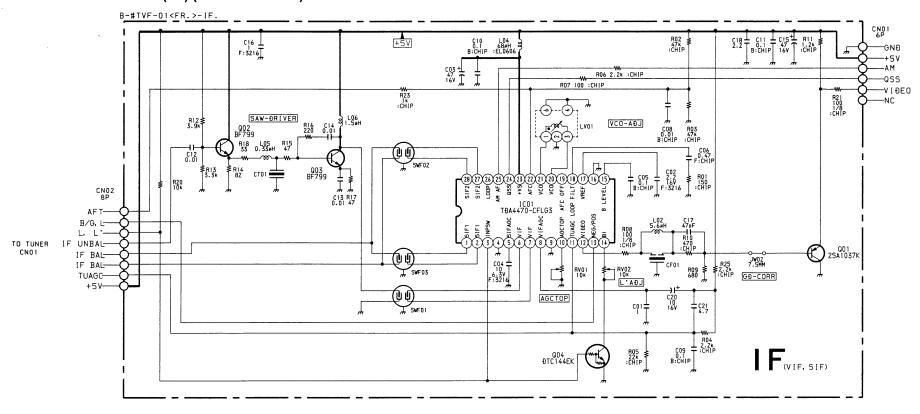
TUVIF (AEP) (KV-29X1A, 29X1D, 29X1E, 29X1K, 29X1L and 29X1R ONLY) TUVIF (UK) (KV-29X1U ONLY)



IF Board

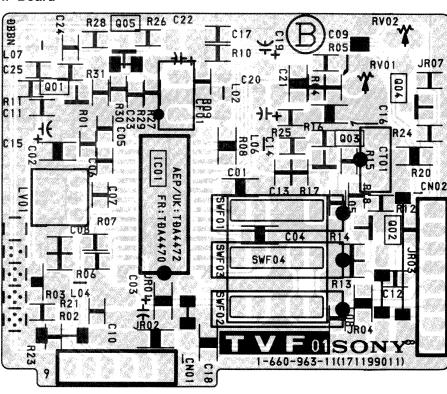
Model Ref. No.	29X1A	29X1D	29X1E	29X1K	29X1L	29X1R	29X1U
CF01	5.5MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6.0MHz
R09	680MF	680MF	680MF	680MF	680MF	680MF	1K

TUVIF (FR) (KV-29X1B ONLY)

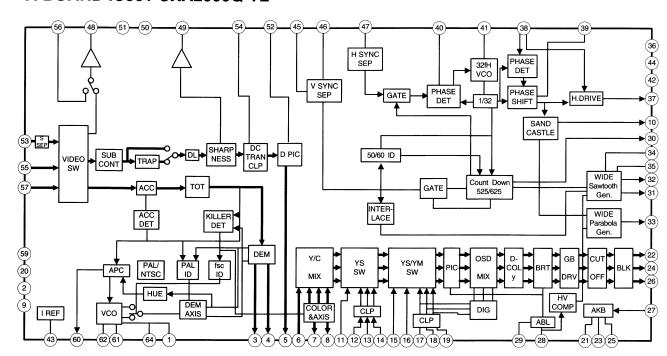




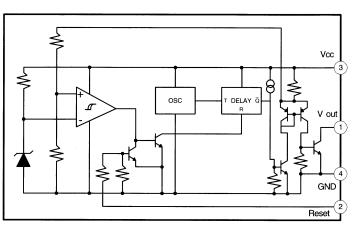
IF Board



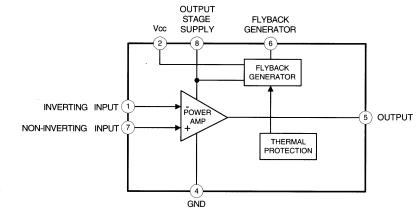
A BOARD IC301 CXA2000Q-TL



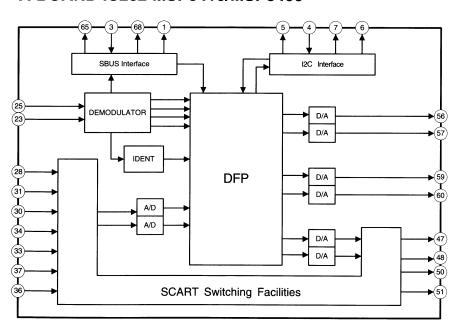
A BOARD IC4 PST593C



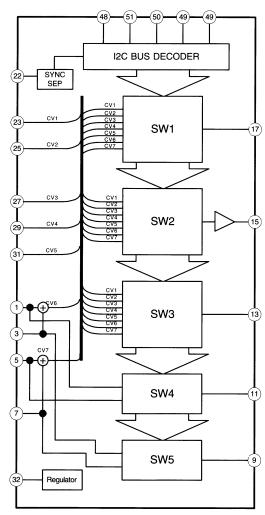
D BOARD IC500 STV9379



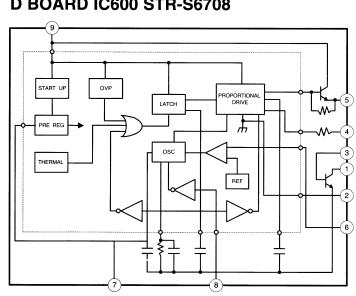
A BOARD IC202 MSP3410/MSP3400



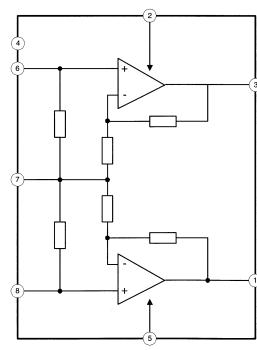
A BOARD IC201 CXA2040Q



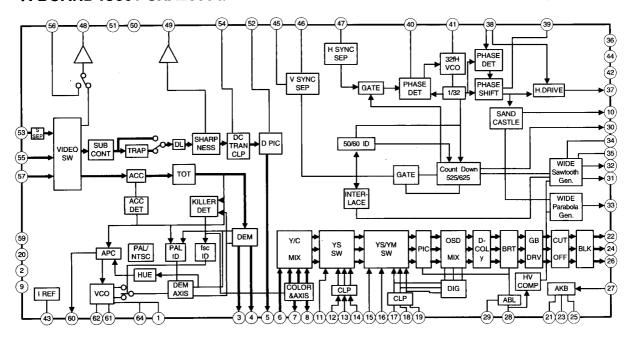
D BOARD IC600 STR-S6708



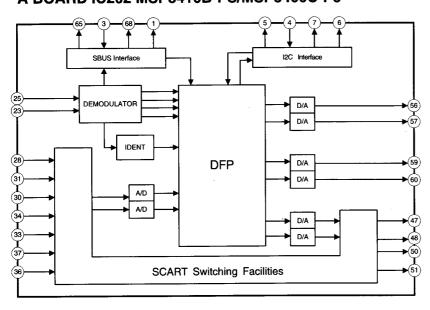
D BOARD IC1200 TDA7264



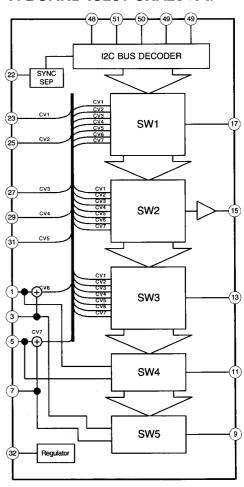
A BOARD IC301 CXA2000Q-TL



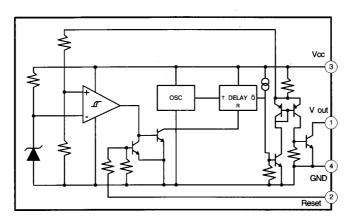
A BOARD IC202 MSP3410B-PS/MSP3400C-P5



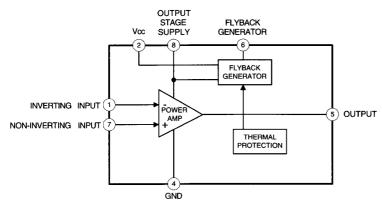
A BOARD IC201 CXA2040Q



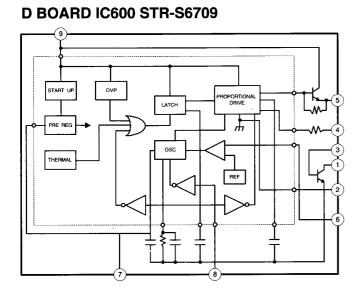
A BOARD IC4 PST593C-MMP-4P

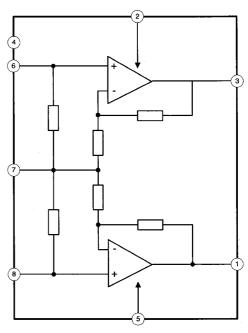


D BOARD IC500 STV9379

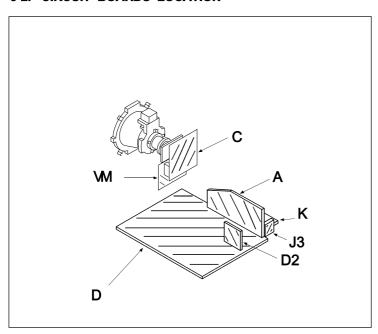


D BOARD IC1200 TDA7264





5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

 All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums

• All resistors are in ohms.

k = 1000, M = 1000K

 Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¹⁴ W

: nonflammable resistor.
: internal component.

• : panel designation, or adjustment for repair.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

± : earth - ground.
 † : earth - chassis.
 † : no mounted.

Note: Les composants identifies par une trame et une marque <u>^</u> sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

Reference information

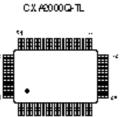
RESISTOR : RN METAL FILM SOLID : RC : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT : RW NONFLAMMABLE WIREWOUND ADJUSTABLE RESISTOR : ×: COIL : LF-8L MICRO INDUCTOR CAPACITOR **TANTALUM** : TA : PS STYROL : PP **POLYPROPYLENE** :PT MYLAR METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE : ALB **BIPOLAR** : ALT **HIGH TEMPERATURE HIGH RIPPLE** : ALR

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10M\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.

: B+ bus.

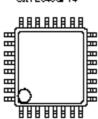
• : signal path. (RF)

5-4 SEMICONDUCTORS



CX A2040 Cp-T4

(TOP VE V)

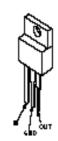


дор чем

IS474



NJM78M09FA TEA7605 µPC2405HF



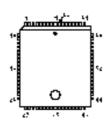
LM393P M5216P TD A2822M µ PC393C



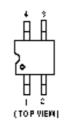
MC14052BDF2



MSP3400C-PS MSP34108-PS-F7-T SDA6273CP-G BG



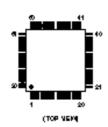
PST593C-MMP-4P



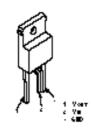
SB X1790-51



SDA5250MC5-GBG



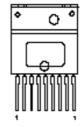
SE-135N



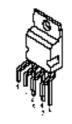
ST24 632M6TR



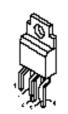
STR-96709



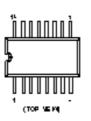
STV9379



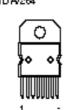
TDA2050



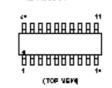
TD A4665T-T



TD A7264

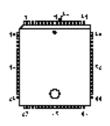


TD A8395T

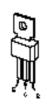


— 69 —

TMB27PC020A-15 FML



BF871-127



BF421L-AMMO JA101TP-Q JC501-Q-AMMO 2SA733-K 2SA933AS

29A9339 29A1091-O 29C3502-F 29C2808STP-R 29C3601-E



DTA144BS DTC114BS DTC143TS DTC144BS 2SC1740S-RT



DTC 144EK 2SA1037K 2SA1162-G 2SC2412K



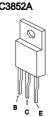
TLP721(D4-)



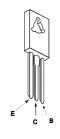
2SA1175-HFE 2SC2785-HFE



2SA1667 2SA1837 2SC3852A



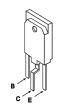
2SC2688-LK



2SC4793

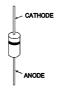


2SC4927-01



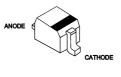
AU-01Z-V1 GP08D EG-1Z-V1 RGP02 EGP20G RGP100 RGP08D RGP02 RGP10GPKG23 RGP15GPKG23 RU3YX-LF-C4 EL1Z EM1-V1 RU3YX-V1 EU-1-V1 EU2A EU2-V1 FML-G12S RU4AM-T3 **RU4DS**

	MTZJ-T-77-9.1A	RD3.9ESB2
	MTZJ-3.6A	RD5.1ESB2
3	MTZJ-3.9B	RD5.6ESB2
3	MTZJ-5.1B	RD6.2ESB2
	MTZJ-5.6B	RD6.8ESB2
	MTZJ-6.2B	RD7.5ESB2
	MTZJ-6.8B	RD10ESB2
	MTZJ-7.5C	RD39ES-B2
	MTZJ-10	1SS133T-77
	MTZJ-39C	

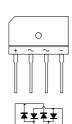


BAS216 DTZ6.8C MA8330 1SS355 UDZ-TE-17-5.6B UDZ-TE-17-9.1B DTZ9.1 DTZ33B

SLA-570KT3F



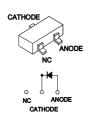
D4SB60L



FMS-3FU



MA3030H(TX)





ANODE

H	

SECTION 6

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items

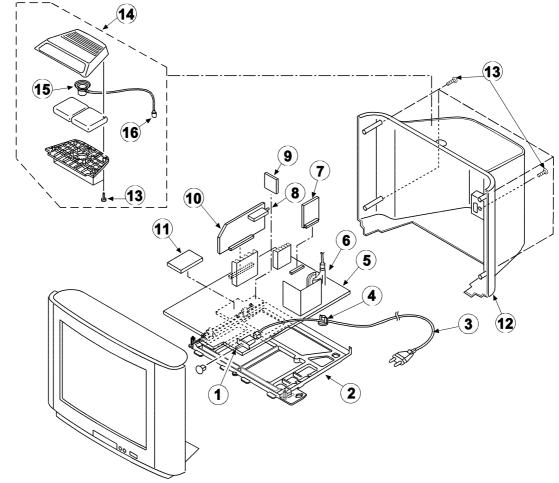
The components identified by shading and marked $\hat{\Lambda}$ are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque $\hat{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece

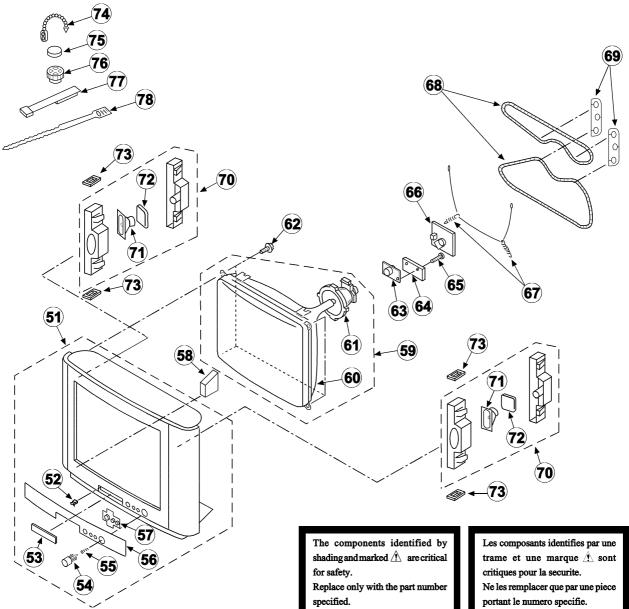
portant le numero specifie.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION		REMARK
1	1-571-433-21	SWITCH, PUSH (AC POWER)		10	*A-1632-508-A	A BOARD, COMPLETE	(KV-29C2A)	
2	*4-203-526-01	BRACKET, MAIN			*A-1632-510-A	A BOARD, COMPLETE	(KV-29C2B)	
3	1-751-680-11	CORD, POWER (WITH NOISE FILTE	R)		*A-1632-446-A	A BOARD, COMPLETE	(KV-29C2D)	
	<u></u>	2.5A/250V (KV-29C2A/29C2			*A-1632-509-A	A BOARD, COMPLETE	(KV-29C2E)	
		29C2E)	, ,		*A-1632-511-A	A BOARD, COMPLETE	(KV-29C2K)	
	1-690-270-21	CORD, POWER (WITH CONNECTOR)			*A-1632-512-A	A BOARD, COMPLETE	(KV-29C2R)	
			K/29C2R)	11	*A-1649-017-A	K BOARD, COMPLETE	,	
4	* *4-202-531-01	AC CORD LOCK (SC)	, _, 0,	12	4-202-993-11	COVER REAR		
5	*A-1642-174 -A			13	4-039-358-01	SCREW (4x16), (+)	BV TAPPING	}
6	↑ 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX	(-1604A2)	14	A-1678-054-A	BOX ASSY, WOOFER		13,15,16
7	*A-1640-250-A	D2 BOARD, COMPLETE	,	15	1-544-767-11	SPEAKER (13CM)		,,
8	1-693-338-11	TUNER/VIF (AEP)		16	1-696-554-11	CABLE, SPEAKER (WI	TH PLUG)	
•	1 0,5 550 11	(KV-29C2A/29C2D/29C2E/29C2	r/2002D1		- *** ***	VIII ()	,	
	1-693-340-11	TUNER/VIF (FR) (KV-29C2B)	n/ 2302R)					
9	*A-1651-087-A	J3 BOARD, COMPLETE						
,	"W-T03T-001-W	UJ DOMAD; COMPILEIE						

6-2. PICTURE TUBE



REF N	IO PART NO	DESCRIPTION	REMARK	REF	NO	PART NO	DESCRIPTION	REMARK
51	X-4200-270-1	BEZNET ASSY(S)	52-60	63	/į\	8-453-005-11	NECK ASSY (NA297-M)	
			2D/29C2K/29C2R)	64	(•)	*A-1644-070-A	VM BOARD, COMPLETE	
	X-4200-272-1	BEZNET ASSY(S-N) (KV-29C		65		4-039-356-01	SCREW (3X12), (+) BV TAPPIN	IG .
52	4-392-036-01	CATCHER, PUSH	,,	66		*A-1638-085-A	C BOARD, COMPLETE	
53	4-203-013-01	DOOR (PAINTED) (S)		67		4-369-318-51	SPRING, TENSION	
54	4-202-992-01	BUTTON, POWER		68	Ŷ.	1-406-807-11	COIL, DEGAUSSING	
55	4-202-964-01	SPRING		69		4-202-749-01	HOLDER, D.G.C.(29"/32")	
56	X-4200-271-A	PANEL ASSY(S)		70		*A-1678-087-A	BOX ASSY	72-73
		(KV-29C2A/29C2	2D/29C2K/29C2R)	71		1-504-146-11	SPEAKER (5X11CM)	
	X-4200-273-A	PANEL ASSY(S) (KV-29C2B/	29C2E)	72		4-200-999-01	STOPPER	
57	4-203-524-01	WINDOW ORNAMENTAL	-	73		*4-202-988-01	CUSHION, BOX	
58	*4-203-098-01	SUPPORTER, CRT		74		4-308-870-00	CLIP, LEAD WIRE	
59 60 61	8-733-856-51	ITC		75		1-452-032-00	MAGNET, DISK; 10MM Ø	
60	8-733-856-05	PICTURE TUBE (SD-269) (M	68LCT60X)	76		1-452-094-00	MAGNET, ROTATABLE DISK; 15M	DM Ø
61	8-451-467-31	DEFLECTION YOKE (Y29GXA2	-B2)	77		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
62	4-203-043-01	SCREW (PT)		78		3-701-007-00	BAND, BINDING	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked $\hat{\underline{\ \ }}$ are critical for safety.

Replace only with the part number

specified.

Les composants identifies par une trame et une marque 🛦 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. • Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F: nonflammable

When indicating parts by reference number, please include the bnard name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH: mH



			•	F: nonflamm	nable				/\
REF.NO.	PART NO.	DESCRIPTION	<u>l</u>	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	*A-1632-508-A	A BOARD, COMP		A)	C121	1-163-247-11	CERAMIC CHIP 68PF	5%	50V
	*A-1632-510-A	A BOARD, COMP		в)	C122 C123	1-163-137-00 1-163-247-11	CERAMIC CHIP 680PF CERAMIC CHIP 68PF	5% 5%	50V 50V
		A BOARD, COMP	****		C124	1-137-399-11	FILM 0.1MF	5%	50V
		**********	****		C201	1-163-139-00	CERAMIC CHIP 820PF	5%	50V
	*A-1632-509-A	A BOARD, COMP		E)	C202 C203	1-164-004-11 1-126-933-11	CERAMIC CHIP 0.1MF ELECT 100MF	10% 20%	25V 16V
	*A-1632-511-A	A BOARD, COMP		K)	C204	1-163-038-00	CERAMIC CHIP 0.1MF		25V
	*A-1632-512-A	A BOARD, COMP	LETE (KV-29C2	R)	C205	1-126-965-11	ELECT 22MF	20%	50V
		*********	****		C206 C207	1-163-141-00 1-164-505-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 2.2MF	5%	50V 16V
	1-750-797-11	SOCKET, PLCC			C207	1-164-505-11	CERAMIC CHIP 2.2MF		16V
		2001111, 1100			C209	1-164-505-11	CERAMIC CHIP 2.2MF		16V
	< CA	PACITOR >			C210	1-216-295-00	METAL GLAZE 0 5%	1/10W	
C1	1-163-038-00			25V	C211	1-164-505-11	CERAMIC CHIP 2.2MF		16V
C2	1-126-965-11			0% 50V	C212	1-164-346-11	CERAMIC CHIP 1MF		16V
C3 C4	1-163-104-00 1-163-104-00	CERAMIC CHIP		% 50∇ % 50∇	C213 C214	1-163-133-00 1-164-346-11	CERAMIC CHIP 470PF CERAMIC CHIP 1MF	5%	50V 16V
C8	1-163-104-00	CERAMIC CHIP		25V	C215	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C10	1-163-243-11	CERAMIC CHIP	47PF 5	% 50V	C216	1-126-967-11	ELECT 47MF	20%	16V
C11	1-163-243-11	CERAMIC CHIP			C217	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C14	1-163-038-00	CERAMIC CHIP		25V	C218	1-126-967-11	ELECT 47MF	20%	16V
C15 C18	1-163-133-00 1-163-038-00	CERAMIC CHIP		% 50♥ 25♥	C219 C220	1-164-232-11 1-164-505-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 2.2MF	10%	50V 16V
C19	1-163-989-11	CERAMIC CHIP	0.033MF 1	0% 25V	C221	1-164-505-11	CERAMIC CHIP 2.2MF		16V
C20	1-164-232-11	CERAMIC CHIP	0.01MF 1	0% 50V	C222	1-164-346-11	CERAMIC CHIP 1MF		16V
C21	1-164-232-11	CERAMIC CHIP		0% 50V	C223	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C22 C43	1-163-117-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP		% 50♥ % 50♥	C224 C225	1-164-346-11 1-163-133-00	CERAMIC CHIP 1MF CERAMIC CHIP 470PF	5%	16V 50V
C45	1-163-038-00	CERAMIC CHIP	0.1MP	25V	C226	1-126-967-11	ELECT 47MF	20%	16V
C80	1-163-117-00	CERAMIC CHIP		% 50V	C227	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C81	1-164-005-11	CERAMIC CHIP		25V	C228	1-126-967-11	ELECT 47MF	20%	16V
C82	1-163-037-11	CERAMIC CHIP		0% 50V	C229	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C90	1-163-038-00	CERAMIC CHIP	U.IMF	25₹	C230	1-216-295-00	METAL GLAZE 0 5%	1/10W	
C101	1-163-038-00	CERAMIC CHIP		25V	C231	1-163-038-00	CERAMIC CHIP 0.1MF	0.00	25V
C102 C103	1-126-934-11 1-126-965-11			0% 16V 0% 50V	C232 C251	1-126-967-11 1-163-087-00	ELECT 47MF CERAMIC CHIP 4PF	20% 0.25PE	16V
C104	1-163-117-00			% 50V	C252	1-163-087-00	CERAMIC CHIP 4PF	0.25PE	
				(KV-29C2B)	C253	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C110	1-126-967-11			0% 16V	C254	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C112	1-163-141-00	CERAMIC CHIP		% 50V	C255	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C113 C115	1-126-967-11 1-102-112-00			0% 16V 0% 50V	C256 C257	1-163-038-00 1-126-965-11	CERAMIC CHIP 0.1MF ELECT 22MF	20%	25V 50V
C113	T-T07-TT7-00	CEKAMIC	JJUFF I	(KV-29C2B)	C257	1-126-965-11	ELECT 10MF	20%	50V 50V
C120	1-163-117-00	CERAMIC CHIP	100PF 5	% 50V	C259	1-164-336-11	CERAMIC CHIP 0.33MF		25V

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C260 C261 C262 C263	1-163-038-00 1-163-133-00 1-163-133-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF	5% 5%	25V 50V 50V 25V	C340 C341 C342 C343	1-126-933-11 1-164-005-11 1-164-346-11 1-163-017-00	ELECT 100MF CERAMIC CHIP 0.47MF CERAMIC CHIP 1MF CERAMIC CHIP 0.0047MF	20% 16V 25V 16V 10% 50V
C264 C265 C266 C267 C268	1-126-962-11 1-126-964-11 1-126-964-11 1-126-965-11 1-163-038-00	ELECT 10MF ELECT 10MF	20% 20% 20% 20%	50V 50V 50V 50V 25V	C344 C347 C348 C350 C351	1-163-117-00 1-164-005-11 1-163-038-00 1-126-964-11 1-164-505-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 2.2MF	5% 50V 25V 25V 20% 50V 16V
C269 C270 C271 C272 C273	1-163-131-00 1-163-131-00 1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 390PF CERAMIC CHIP 0.001MF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	C352 C353 C354 C355 C356	1-164-005-11 1-164-505-11 1-164-005-11 1-126-965-11 1-164-232-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.47MF ELECT 22MF CERAMIC CHIP 0.01MF	25V 16V 25V 20% 50V 10% 50V
C274 C275 C276 C277 C278	1-163-141-00 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	5%	50V 16V 16V 16V 16V	C357 C358 C359 C360 C370	1-163-133-00 1-164-005-11 1-163-231-11 1-163-231-11 1-164-505-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.47MF CERAMIC CHIP 15PF CERAMIC CHIP 15PF CERAMIC CHIP 2.2MF (KV-29C2B/29C2D/29	5% 50V 25V 5% 50V 5% 50V 16V
C279 C280 C281 C282 C300	1-126-965-11 1-163-038-00 1-126-965-11 1-163-038-00 1-163-109-00	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF	20% 20% 5%	50V 25V 50V 25V 50V	C371 C372 C373	1-163-141-00 1-164-004-11 1-164-489-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF (KV-29C2B/29C2D/29 CERAMIC CHIP 0.22MF (KV-29C2B/29C2D/29	5% 50V 10% 25V C2E/29C2K/29C2R) 10% 16V
C301 C302 C303 C304 C305	1-163-038-00 1-163-141-00 1-163-141-00 1-163-038-00 1-163-038-00		5% 5%	25V 50V 50V 25V 25V	C1001 C1002 C1010 C1013 C1014	1-163-235-11 1-163-235-11 1-163-038-00 1-126-965-11 1-163-038-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF	5% 50V 5% 50V 25V 20% 50V 25V
C306 C307 C308 C309 C310	1-164-232-11 1-164-232-11 1-164-232-11 1-164-346-11 1-164-346-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF	10% 10% 10%	50V 50V 50V 16V 16V	C1014 C1015 C1020	1-164-489-11 1-163-101-00		10% 16V 5% 50V
C311 C312 C313 C315	1-164-346-11 1-164-505-11 1-163-141-00 1-216-295-00		5% 1.10%	16V 16V 50V	CF120		TRAP, CERAMIC (6.5MEz)	(KV-29C2B)
C317 C319 C320	1-163-038-00 1-163-017-00 1-126-965-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0047MF ELECT 22MF	10% 20%	25V 50V 50V	CN1 CN2 CN201 CN301	1-695-302-11 *1-568-880-51 1-766-296-11 *1-568-882-51	CONNECTOR, DUAL SCART	RD 50P
C321 C322 C323	1-164-232-11 1-163-809-11 1-163-809-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF	10% 10% 10%	50V 25V 25V		< DIO	DDE >	
C324 C325 C326 C327 C328	1-163-809-11 1-164-346-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF FILM 0.047MF	10% 5% 5% 20%	25V 16V 50V 50V 50V	D2 D10 D11 D12 D101	8-719-158-15 8-719-158-15 8-719-158-15	DIODE 1SS355 DIODE RD5.68-B DIODE RD5.68-B DIODE RD5.68-B DIODE DTZ33B	
C329 C330 C331 C332 C333	1-164-232-11 1-130-777-00 1-137-581-11	CERAMIC CHIP 0.01MF FILM 0.1MF FILM 0.1MF CERAMIC CHIP 0.01MF	10% 5% 5% 10% 20%	50V 63V 100V 50V 16V	D201 D202 D203 D204 D205	8-719-977-22 8-719-977-22 8-719-977-22	DIODE DTZ9.1	
C334 C335 C336 C337 C338	1-164-232-11 1-164-004-11 1-163-009-11 1-164-009-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 1MF	10% 10% 10% 10%	50V 25V 50V 50V 16V	D206 D207 D208 D209 D210	8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1	
C339		CERAMIC CHIP 0.01MF	10%	50V	D211 D212		DIODE DTZ9.1 DIODE DTZ9.1	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D213 D214 D215	8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1		Q113 Q114 Q120		TRANSISTOR 2SA1162 TRANSISTOR 2SA1162 TRANSISTOR 2SC2412	-G	
D216 D217 D218 D220 D221	8-719-158-15 8-719-158-15 8-719-988-62	DIODE RD5.68-B DIODE RD5.68-B DIODE RD5.68-B DIODE 188355 DIODE 188355		Q121 Q122 Q124 Q130 Q201	8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412: TRANSISTOR 2SC2412: TRANSISTOR 2SC2412: TRANSISTOR 2SA1162 TRANSISTOR 2SC2412:	K-ÖR K-ÖR (KV-29C2) -G (KV-29C2B)	
D222 D223 D224 D225 D226	8-719-977-22 8-719-977-22 8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1		Q202 Q203 Q204 Q205 Q206	8-729-920-74 8-729-920-74 8-729-901-01	TRANSISTOR 28C2412 TRANSISTOR 28C2412 TRANSISTOR 28C2412 TRANSISTOR DTC144E TRANSISTOR 28A1162	K-QR K-QR K	
D227 D251 D320 D370	8-719-047-16 8-719-977-22	DIODE DTE6.8C DIODE BAS216 DIODE DTE9.1 DIODE BAS216 (KV-29C2B/29C2D/29C2E/29	C2K/29C2R)	Q207 Q300 Q304 Q305 Q306	8-729-920-74 8-729-920-74	TRANSISTOR 2SA1162 TRANSISTOR DTC144E TRANSISTOR 2SC2412: TRANSISTOR 2SC2412: TRANSISTOR DTC144E	K K-QR K-QR	
D1010		DIODE MA3030-H(TX) RE FILTER >		Q330 Q331 Q332 Q1001	8-729-920-74	TRANSISTOR 2SA1162 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR DTC144E	K-QR K-QR	
FL101 FL201 FL202	1-236-071-11 1-236-071-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		Q1001 Q1002	8-729-216-22	TRANSISTOR 2SA1162 SISTOR >		
FL203 FL1001		ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		JR5	1-216-295-00		5% 1/10W	
	< IC	>		JR6 JR101 JR201	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0	5% 1/10W 5% 1/10W 5% 1/10W	
IC1 IC2	8-759-376-75 8-759-334-20	IC SDA5250M-C5-GEG IC ST24E32M6TR		JR204	1-216-295-00		5% 1/10W	
IC3 IC4 IC201	8-759-353-82 8-759-394-57	IC TMS27PC020A-15FML IC PST593C-MMP-4P IC CXA2040Q-T4		JR205 JR206 JR207 JR304	1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-91	METAL GLAZE 0 METAL GLAZE 0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/8W	
IC202	8-759-376-80 8-759-376-56	IC MSP3410B-PS-F7-T (KV-29C2B IC MSP3400C-PS-C6-T	/29C2E)	JR304	1-216-296-91		5% 1/8W	
IC203 IC301	8-759-385-76 8-752-076-09		C2K/29C2R)	R1 R2 R3 R4	1-216-295-00 1-216-025-00 1-216-025-00 1-216-013-00	METAL GLAZE 100 METAL GLAZE 100	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
IC302 IC303	8-759-288-85 8-759-251-56	IC TDA4665T-T IC TDA8395T		R5	1-216-065-00			
IC1001	8-759-376-76	(KV-29C2B/29C2D/29C2E/29 IC SDA5273CP-GEG	C2K/29C2R)	R7 R8	1-216-041-00 1-216-065-00	METAL GLAZE 4.7K		
	< CO1	IL >		R9 R18	1-216-041-00 1-216-025-00	METAL GLAZE 100	5% 1/10W	
L10 L102 L111 L120 L121	1-408-406-00	INDUCTOR CHIP 1UH INDUCTOR 8.2UH	В)	R19 R20 R21 R24 R25	1-216-025-00 1-216-025-00 1-216-025-00 1-216-065-00 1-216-065-00	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 4.7K		
L122 L300	1-408-408-00 1-408-607-31			R28 R29	1-216-065-00 1-216-065-00		,	
		ANSISTOR >		R30 R31	1-216-065-00 1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 1/10W 5% 1/10W	
Q1	8-729-920-74	TRANSISTOR 2SC2412K-QR		R32 R33	1-216-025-00 1-216-025-00		5% 1/10W 5% 1/10W	
04 080	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R34	1-216-025-00		5% 1/10W	
081 0110	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR		R35 R36	1-216-025-00 1-216-065-00	METAL GLAZE 100	5% 1/10W	
Q111 Q111		TRANSISTOR 2SA1162-G		R37 R38	1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
Q112		TRANSISTOR 2SC2412K-QR		MJV	T-MT0-003-00	and the same and t	30 1/10W	



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REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
R39	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R118	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R40	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R119	1-216-033-00	METAL GLAZE	220	5%	1/10W
R42	1-216-069-00 1-216-069-00	METAL GLAZE METAL GLAZE	6.8K	5% 5%	1/10W	R120 R121	1-216-069-00	METAL GLAZE METAL GLAZE	6.8K	5%	1/10W
R44 R46	1-216-095-00	METAL GLAZE	82K	5%	1/10W 1/10W	R121	1-216-073-00 1-216-041-00	METAL GLAZE	470	5% 5%	1/10W 1/10W
R47	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R123	1-216-031-00	METAL GLAZE	180	5%	1/10W
R48	1-216-121-91		1M	5%	1/10W	R124	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R49	1-216-025-00	METAL GLAZE	100	5%	1.10W	R125	1-216-081-00		22K	5%	1/10W
R54 R58	1-216-025-00 1-216-063-91	METAL GLAZE METAL GLAZE	100 3.9K	5% 5%	1/10W 1/10W	R126	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-29C2B)
R59 R60	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R127 R128	1-216-081-00 1-216-035-00	METAL GLAZE METAL GLAZE	22K 270	5% 5%	1/10W 1/10W
R61	1-216-025-00	METAL GLAZE	100	5%	1/10W	R129	1-216-037-00	METAL GLAZE	330	5%	1/10W
R62	1-216-025-00	METAL GLAZE	100	5%	1/10W	R130	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R63	1-216-025-00	METAL GLAZE	100	5%	1/10W						(KV-29C2B)
R64	1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R131	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R65 R66	1-216-025-00 1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R132	1-216-025-00	METAL GLAZE	100	5%	(KV-29C2B) 1/10W
R67	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W						(KV-29C2B)
R69	1-216-025-00	METAL GLAZE	100	5%	1/10W	R133	1-216-041-00	METAL GLAZE	470	5%	1/10W (KV-29C2B)
R70	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R71 R72	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R134	1-216-001-00	METAL GLAZE	10	5%	1/10W (KV-29C2B)
R73	1-216-025-00	METAL GLAZE	100	5%	1/10W	R135	1-216-045-00	METAL GLAZE	680	5%	1/10W
R74	1-216-025-00	METAL GLAZE	100	5%	1/10W	R136	1-216-033-00	METAL GLAZE	220	5%	(KV-29C2B) 1/10W
R75	1-216-025-00	METAL GLAZE	100	5%	1/10W	MIJO	1 110 055 00			50	(KV-29C2B)
R76	1-216-025-00	METAL GLAZE	100	5%	1/10W					=0	4./4.000
R77 R78	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R137	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KV-29C2B)
R79		METAL GLAZE	220	5%	1/10W	R138	1-216-041-00	METAL GLAZE	470	5%	1/10W
R80	1-216-049-00	METAL GLAZE	18	5%	1/10W	R200	1-216-049-00	METAL CLASS	1K	5%	(KV-29C2B) 1/10W
R81	1-216-081-00	METAL GLAZE	22K	5%	1/10W	MAUU	1-210-015-00	MILLI CIRIL	***	3.0	1/ 1011
R82	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R201	1-216-033-00		220	5%	1/10W
R83 R84	1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE	10K 22K	5% 5%	1/10W 1/10W	R202 R203	1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE	220 100	5% 5%	1/10W 1/10W
ROT	1-210-001-00	MEIAU GIAZE	228	20	1/10#	R204	1-216-025-00	METAL GLAZE	100	5%	1/10W
R85	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R205	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R86 R87	1-216-077-00 1-216-081-00	METAL GLAZE METAL GLAZE	15K 22K	5% 5%	1/10W 1/10W	R206	1-216-033-00	METAL GLAZE	220	5%	1/10W
R88	1-216-025-00	METAL GLAZE	100	5%	1/10W	R208	1-216-033-00	METAL GLAZE	470	5%	1/10W
R91	1-216-025-00	METAL GLAZE	100	5%	1/10W	R209	1-216-049-00		1K	5%	1/10W
R92	1-216-025-00	METAL GLAZE	100	5%	1/10W	R210 R211	1-216-017-91 1-216-033-00	METAL GLAZE METAL GLAZE	47 220	5% 5%	1/10W 1/10W
R93	1-216-033-00		220	5%	1/10W	KZII	1-210-033-00	MEIAU GUAZE	220	20	1/104
R94	1-216-033-00	METAL GLAZE	220	5%	1/10W	R212	1-216-022-00		75	5%	1/10W
R95	1-216-033-00 1-216-295-00		220 0	5% 5%	1/10W 1/10W	R213 R214	1-216-022-00 1-216-025-00		75 100	5% 5%	1/10W 1/10W
R97	1-210-293-00	METAL GLAZE	v	20	1/10#	R214	1-216-025-00		100 100	5%	1/10W
R98	1-216-295-00		0	5%	1/10W	R217	1-216-113-00		470K		1/10W
R101 R102	1-216-061-00 1-216-025-00	METAL GLAZE	3.3K		1/10W 1/10W	p210	1-216-025-00	אפווו מוצוים	100	Eo	1/10W
R102 R103	1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R218 R219	1-216-025-00		100 470K	5% 5%	1/10W 1/10W
R104	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R220	1-216-295-00	METAL GLAZE	0	5%	1/10W
R105	1-216-113-00	WETST CILE	470K	Eo	1/10W	R221 R222	1-216-039-00		390 47K	5% 5%	1/10W 1/10W
R105	1-216-113-00		10K	5% 5%	1/10W 1/10W	R444	1-216-089-00	WOINT GINVE	7/1	216	1/10W
R110	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R223	1-216-295-00		0	5%	1/10W
R111 R112	1-216-029-00 1-216-029-00		150 150	5% 5%	1/10W 1/10W	R224 R225	1-216-039-00 1-216-089-00		390 47K	5% 5%	1/10W 1/10W
KTT2	1-210-023-00	METAN GRAVE	130	36	T\ TOM	R225 R226	1-216-089-00		220	⊃₹ 5%	1/10W 1/10W
R113	1-216-001-00		10	5%	1/10W	R227	1-216-022-00		75	5%	1/10W
R114 R115	1-216-029-00 1-216-037-00		150 330	5% 5%	1/10W 1/10W	R228	1-216-022-00	METAL CLASS	75	5%	1/10W
R116	1-216-065-00		4.7K		1/10W 1/10W	R229	1-216-022-00		220	5% 5%	1/10W 1/10W
R117	1-216-055-00		1.8K		1/10W	R230	1-216-022-00	METAL GLAZE	75	5%	1/10W
						R232	1-216-025-00	METAL GLAZE	100	5%	1/10W





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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
R233	1-216-025-00	METAL GLAZE 100	5%	1/10W	R337	1-216-025-00	METAL GLAZE	100	5%	1/10W	Ī
R234	1-216-113-00			1/10W	R338	1-216-051-00		1.2K	5%	1/10W	
R235 R236	1-216-025-00 1-216-113-00	METAL GLAZE 100 METAL GLAZE 470		1/10W 1/10W	R339 R340	1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE	1K 100	5% 5%	1/10W 1/10W	
R237	1-216-295-00		. 5%	1/10W	R341	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R238	1-216-089-00	METAL GLAZE 478	5%	1/10W	R342	1-216-049-00	METAL GLAZE	1K	5%	1/10W	ľ
R239	1-216-039-00		5% 5%	1/10W 1/10W	R343 R344	1-216-061-00	METAL GLAZE	3.3K 5.6K	5% 5%	1/10W 1/10W	
R240 R241	1-216-295-00 1-216-089-00			1/10W 1/10W	R345	1-216-067-00 1-216-025-00		100	ეზ 5%	1/10W	
R242	1-216-039-00	METAL GLAZE 390	5%	1/10W	R346	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	Ī
R243	1-216-033-00	METAL GLAZE 220	5%	1/10W	R347	1-216-025-00	METAL GLAZE	100	5%	1/10W	Ī
R244	1-216-033-00			1/10W	R348	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R245 R246	1-216-073-00 1-216-053-00			1/10W 1/10W	R349 R350	1-216-025-00 1-216-042-00	METAL GLAZE METAL GLAZE	100 510	5% 5%	1/10W 1/10W	
R247	1-216-053-00			1/10W	R351	1-216-053-00		1.5K	5%	1/10W	
R249	1-216-001-00	METAL GLAZE 10	5%	1/10W	R352	1-216-077-00	METAL GLAZE	15K	5%	1/10W	ľ
R255	1-216-025-00			1/10W	R353	1-216-033-00 1-216-295-00	METAL GLAZE	220	5%	1/10W	
R256 R270	1-216-025-00 1-216-022-00		5% 5%	1/10W 1/10W	R354 R357	1-216-295-00		0 1K	5% 5%	1/10W 1/10W	
R271	1-216-022-00	METAL GLAZE 75	5%	1/10W	R370	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R272	1-216-022-00	METAL GLAZE 75	5%	1/10W	R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W	ı
R273	1-216-022-00		5%	1/10W	R1002	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R280 R281	1-216-049-00 1-216-089-00		5% : 5%	1/10W 1/10W	R1010 R1012	1-216-295-00 1-216-041-00	METAL GLAZE METAL GLAZE	0 470	5% 5%	1/10W 1/10W	
R282	1-216-093-00			1/10W	R1012	1-216-041-00	METAL GLAZE	4.7K	5%	1/10W	
R283	1-216-073-00	METAL GLAZE 108		1/10W	R1020	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R284	1-216-089-00			1/10W	R1021	1-216-029-00		150	5%	1/10W	
R285 R286	1-216-093-00 1-216-073-00			1/10W 1/10W	R1022 R1023	1-216-029-00 1-216-029-00	METAL GLAZE METAL GLAZE	150 150	5% 5%	1/10W 1/10W	
R300	1-216-025-00			1/10W	R1023	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R301	1-216-033-00			1/10W	R1026	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R302	1-216-295-00		5%	1/10W	R1027	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R303 R308	1-216-295-00 1-216-025-00		5% 5%	1/10W 1/10W	R1028	1-216-025-00	METAL GLAZE	100	5%	1/10W	l
R309	1-216-033-00			1/10W		< TU	TER >				
R310	1-216-033-00			1/10W	TU101	1-693-338-11		ED)			
R311	1-216-295-00	METAL GLAZE 0	5%	1/10W	10101	1-055-550-11			D/29C2	2E/29C2	K/29C2R)
R312	1-216-295-00		5%	1/10W		1-693-340-11	TUNER/VIF (F	R) (KV-	29C2B)) `	
R313 R314	1-216-295-00 1-216-295-00		5% 5%	1/10W 1/10W		رون >	STAL >				
R315	1-216-295-00		5%	1/10W	-1			DIVIA			
R316	1-216-033-00	METAL GLAZE 220	5%	1/10W	X1 X201		VIBRATOR, CEI		8.432h	Œz	
R318	1-216-689-11	METAL GLAZE 39R	5%	1/10W	X301	1-567-504-11	OSCILLATOR,	CRYSTAL	li .		
R319	1-216-081-00			1/10W	X302		OSCILLATOR,		l		
R320 R321	1-216-025-00 1-216-025-00			1/10W 1/10W	X303		VIBRATOR, CE				
R322	1-216-025-00	METAL GLAZE 100	5%	1/10W	X1001	1-579-965-21	VIBRATOR, CR	YSTAL 2	0.5MH2	Z	
R323	1-216-033-00	METAL GLAZE 220	5%	1/10W	******	***********	**********	******	*****	*****	******
R324	1-216-063-91			1/10W		+> 4600 005 1	4 DALDD 401				
R326 R327	1-216-025-00 1-216-025-00			1.10W 1/10W		*A-1638-085-A	C BOARD, COM				
R328	1-216-129-00	METAL GLAZE 2.2	M 5%	1/10W		< CAI	PACITOR >				
R329	1-216-089-00	METAL GLAZE 478	5%	1/10W	4866					4.00	
R330 R331	1-216-025-00 1-216-059-00			1/10W 1/10W	C702 C703	1-102-115-00 1-102-116-00	CERAMIC CERAMIC	560PF 680PF		10% 10%	50V 50V
R332	1-216-025-00			1/10W	C708	1-162-114-00		0.0047	MF		2KV
D222	1 016 075 00	Womit Atton 400	E0.	·	C710	1-107-652-11		10MF		20%	250V
R333 R334	1-216-075-00 1-216-041-00			1/10W 1/10W	C712	1-102-116-00	CERAMIC	680PF		10%	50V
R335	1-208-806-11	METAL CHIP 10R	0.509	s 1/10W	C714	1-126-967-11		47MF		20%	16V
R336	1-216-109-00		K 5%	1/10W	C717	1-102-114-00	CERAMIC	470PF		10%	50 V



Les composants identifies par une trame et une marque $\hat{\bot}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked \hat{x} are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C718	1-102-114-00		470PF	10%	50V	R723	1-249-417-11	CARBON	18	5%	1/4W	
C719 C722 C723	1-102-114-00 1-101-880-00 1-101-880-00	CERAMIC	470PF 47PF 47PF	10% 5% 5%	50V 50V 50V	R724 R726	1-202-846-00 1-202-822-00		470K 2.2K		1/2W 1/2W	
C724	1-101-880-00		47PF	5%	50V	R727 R728	1-247-815-91 1-216-350-11	CARBON	220 1.2	5% 5%	1/4W 1W	F
	< CON	INECTOR >				R729	1-249-408-11		180	5%	1/4W	•
CN701 CN702		PIN, CONNECTO TAB (CONTACT)				R731 R733	1-249-423-11 1-249-415-11		3.3K 680	5% 5%	1/4W 1/4W	
CN703	*1-568-882-51					R734 R735	1-247-807-31 1-249-415-11	CARBON	100 680	5% 5%	1/4W 1/4W	
	< DIC	DDE >				R736	1-216-486-00		8.2K	5%	3W	F
D701 D702		DIODE RD3.9ES DIODE 1SS133				R739 R740	1-249-417-11 1-249-415-11		1K 680	5% 5%	1/4W 1/4W	
D706 D707		DIODE 1SS133: DIODE 1SS133:				R741 R744	1-202-549-00 1-249-421-11		100 2.2K	20% 5%	1/2W 1/4W	
D708		DIODE 1SS133				R745	1-249-421-11		2.2K	5%	1/4W	
D709 D710		DIODE 1SS133: DIODE 1SS133:				R746 R747	1-249-421-11 1-249-437-11		2.2K 47K	5%	1/4W 1/4W	
D711 D714	8-719-302-43 8-719-991-33	DIODE EL1Z DIODE 1SS133:	T-77			R748 R749	1-249-417-11 1-249-435-11		1K 33K	5% 5%	1/4W 1/4W	
D715		DIODE 1SS133					< VAR	RIABLE RESISTOR	R >			
D716 D717	8-719-991-33	DIODE 1SS133	r-77			RV701	1-230-641-11	RES, ADJ, ME	TAL GLA	ZE 2.	2M	
D718 D719	8-719-991-33	DIODE 1SS133	T-77			RV702		RES, ADJ, ME				
D720		DIODE 1SS133	T-77			******	************			*****	******	********
77.01 A		SOCKET >					*A-1640-250-A	D2 BOARD, COL				
J701 <u>^</u>		•					< CAP	ACITOR >				
T 704		L >	22110			C1801	1-126-967-11		47MF	We	20%	50V
L704	1-408-609-41	INDUCTOR	33UH			C1803 C1804	1-137-368-11 1-126-964-11	FILM ELECT	0.0047 10MF		5% 20%	50V 50V
	1-408-609-41 < TRA	INDUCTOR				C1803	1-137-368-11 1-126-964-11 1-137-366-11	FILM BLECT FILM	0.0047		5%	50V
Q702 Q703	1-408-609-41 < TRA 8-729-119-78 8-729-906-70	INDUCTOR NSISTOR > TRANSISTOR 2: TRANSISTOR BI	SC2785-HFE F871-127			C1803 C1804 C1807	1-137-368-11 1-126-964-11 1-137-366-11 < CON	FILM ELECT FILM INECTOR >	0.0047 10MF 0.0022	MF	5% 20% 5%	50V 50V
0702 0703 0704 0705	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78	INDUCTOR INSISTOR > TRANSISTOR 2: TRANSISTOR B: TRANSISTOR 2: TRANSISTOR 2:	SC2785-HFE F871-127 SA1091-0 SC2785-HFE			C1803 C1804	1-137-368-11 1-126-964-11 1-137-366-11 < CON	FILM ELECT FILM NECTOR >	0.0047 10MF 0.0022	MF	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-906-70	INDUCTOR ANSISTOR > TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR BI	SC2785-HFE F871-127 SA1091-O SC2785-HFE F871-127			C1803 C1804 C1807 CN1801	1-137-368-11 1-126-964-11 1-137-366-11 < CON 1-573-299-21	FILM ELECT FILM INECTOR > CONNECTOR, BO PIN, CONNECTO	0.0047 10MF 0.0022	MF	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-119-78 8-729-906-70 8-729-119-78	INDUCTOR INSISTOR > TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2785-HFE F871-127 S81091-0 SC2785-HFE F871-127 S81091-0 SC2785-HFE			C1803 C1804 C1807 CN1801	1-137-368-11 1-126-964-11 1-137-366-11 < CON 1-573-299-21 *1-568-878-51 < DIO	FILM ELECT FILM INECTOR > CONNECTOR, BO PIN, CONNECTO	0.0047 10MF 0.0022 DARD TO OR 3P	MF	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710	1-408-609-41 < TRE 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-200-17 8-729-119-78 8-729-906-70 8-729-906-70 8-729-906-70	INDUCTOR ANSISTOR > TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR BI TRANSISTOR BI TRANSISTOR BI TRANSISTOR 2:	SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0			C1803 C1804 C1807 CN1801 CN1803	1-137-368-11 1-126-964-11 1-137-366-11 < CON 1-573-299-21 *1-568-878-51 < DIO	FILM ELECT FILM INECTOR > CONNECTOR, BO PIN, CONNECTO DIODE RD10ESI	0.0047 10MF 0.0022 DARD TO OR 3P	MF	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709	1-408-609-41 < TRE 8-729-119-78 8-729-906-70 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-200-17 8-729-200-17 8-729-200-17 8-729-200-17	INDUCTOR INSISTOR > TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR BI	SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0			C1803 C1804 C1807 CN1801 CN1803	1-137-368-11 1-126-964-11 1-137-366-11 < CON 1-573-299-21 *1-568-878-51 < DIO 8-719-110-17 < IC	FILM ELECT FILM INECTOR > CONNECTOR, B PIN, CONNECTO DE > DIODE RD10ESI > IC NJM78M09FI	0.0047 10MF 0.0022 DARD TO DR 3P	MF	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-119-78 8-729-119-78 8-729-906-70 8-729-906-70 8-729-19-78 8-729-173-38 < RES 1-216-486-00	INDUCTOR ANSISTOR > TRANSISTOR 2: TRANSISTOR B: TRANSISTOR 2: TRANSISTOR B: TRANSISTOR B: TRANSISTOR B: TRANSISTOR B: TRANSISTOR B: TRANSISTOR B: TRANSISTOR B: TRANSISTOR C: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 3: TRANSIST	SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SA733-K	: 3W	F	C1803 C1804 C1807 CN1801 CN1803 D1802	1-137-368-11 1-126-964-11 1-137-366-11 < CON 1-573-299-21 *1-568-878-51 < DIO 8-719-110-17 < IC 8-759-701-59 8-759-603-37	FILM ELECT FILM INECTOR > CONNECTOR, B PIN, CONNECTO DE > DIODE RD10ESI > IC NJM78M09FI	0.0047 10MF 0.0022 DARD TO DR 3P	MF	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711 R704 R705 R706	1-408-609-41 < TRE 8-729-119-78 8-729-906-70 8-729-119-78 8-729-906-70 8-729-119-78 8-729-200-17 8-729-119-78 8-729-200-17 8-729-173-38 < RES 1-216-486-00 1-202-822-00 1-247-815-91	INDUCTOR ANSISTOR > TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: CARBON	SC2785-HFE F671-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F671-127 SA1091-0 SA733-K	3W % 1/2V 1/4V	 	C1803 C1804 C1807 CN1801 CN1803 D1802	1-137-368-11 1-126-964-11 1-137-366-11 < CON 1-573-299-21 *1-568-878-51 < DIO 8-719-110-17 < IC 8-759-701-59 8-759-603-37	FILM ELECT FILM INECTOR > COMMECTOR, BE PIN, COMMECTO DE > DIODE RD10ESI > IC NJM78M09FI IC M5216P IK IC >	0.0047 10MF 0.0022 DARD TO DR 3P	BOAR	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-210-17 8-729-906-70 8-729-906-70 8-729-906-70 8-729-119-78 8-729-906-17 8-729-173-38 < RES 1-216-486-00 1-202-822-00	INDUCTOR INSISTOR > TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSIST	SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SA733-K	3W % 1/2W 1/4W	, !	C1803 C1804 C1807 CN1801 CN1803 D1802	1-137-368-11 1-126-964-11 1-137-366-11	FILM ELECT FILM INECTOR > COMMECTOR, BE PIN, COMMECTO DE > DIODE RD10ESI > IC NJM78M09FI IC M5216P IK IC >	0.0047 10MF 0.0022 DARD TO DR 3P	BOAR	5% 20% 5%	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q711 R704 R705 R706 R707 R709	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-200-17 8-729-906-70 8-729-906-70 8-729-200-17 8-729-119-78 8-729-200-17 8-729-200-17 8-729-173-38 < RES 1-216-486-00 1-202-822-00 1-247-815-91 1-202-844-00 1-247-843-11	INDUCTOR ANSISTOR > TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: CARBON SOLID CARBON CARBON CARBON	SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SA733-K 8.2K 5% 2.2K 10 220 5% 180 5% 330K 10	3W % 1/2V 1/4V 1/4V % 1/2V		C1803 C1804 C1807 CN1801 CN1803 D1802 IC1801 IC1802 JW1802	1-137-368-11 1-126-964-11 1-137-366-11	FILM ELECT FILM NECTOR > COMNECTOR, BE PIN, CONNECTOR DIODE RD10ESI > IC NJM78M09FI IC M5216P IK IC > LINK, IC 0.42 SISTOR > CARBON	0.0047 10MF 0.0022 DARD TO DR 3P	MF BOAR	5% 20% 5% D 10P	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711 R704 R705 R706 R707 R709	1-408-609-41 < TRE 8-729-119-78 8-729-906-70 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-119-78 8-729-173-38 < RES 1-216-486-00 1-202-822-00 1-247-815-91 1-202-844-00 1-247-843-11 1-202-844-00 1-216-486-00 1-216-486-00	INDUCTOR INDUCTOR INSISTOR > TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: CARBON SOLID CARBON SOLID CARBON SOLID CARBON SOLID CARBON SOLID	SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SA733-K 8.2K 5% 2.2K 10 220 5% 180 5% 330K 10 3.3K 5% 2.2K 10 8.2K 5%	% 1/2W % 1/4W % 1/4W % 1/2W % 1/2W % 3W	P	C1803 C1804 C1807 CN1801 CN1803 D1802 IC1801 IC1802 JW1802 2	1-137-368-11 1-126-964-11 1-137-366-11	FILM ELECT FILM NECTOR > CONNECTOR, BO PIN, CONNECTO DE > DIODE RD10ESI > IC NJM78M09FI IC M5216P IX IC > LINK, IC 0.42 SISTOR > CARBON CARBON CARBON	0.0047 10MF 0.0022 DARD TO DR 3P 32 A (ICP- 150K 10K 10K	MF) BOAR 5% 5%	5% 20% 5% D 10P	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711 R704 R705 R706 R707 R709	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-119-78 8-729-906-70 8-729-119-78 8-729-200-17 8-729-119-78 8-729-200-17 8-729-173-38 < RES 1-216-486-00 1-202-822-00 1-247-815-91 1-202-844-00 1-247-843-11 1-202-822-00	INDUCTOR TRANSISTOR > TRANSISTOR 2: TRANSI	SC2785-HFE F671-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F671-127 SA1091-0 SA733-K 8.2K 5 2.2K 10 220 5 180 5 330K 10 3.3K 5 2.2K 10	3 W 8 1/2W 1/4W 1/4W 8 1/2W 1.4W 8 1/2W 3 3 W 1/4W	F	C1803 C1804 C1807 CN1801 CN1803 D1802 IC1801 IC1802 JW1802 Z	1-137-368-11 1-126-964-11 1-137-366-11	FILM ELECT FILM ENECTOR > CONNECTOR, BO PIN, CONNECTO DE > DIODE RD10ESI > IC NJM78M09FI IC M5216P IK IC > LINK, IC 0.42 EISTOR > CARBON CARBON CARBON CARBON CARBON	0.0047 10MF 0.0022 DARD TO DR 3P 32	MF) BOAR 5%	5% 20% 5% D 10P	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711 R704 R705 R706 R707 R709 R711 R712 R714 R715 R716	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-210-17 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-200-17 8-729-173-38 < REE 1-216-486-00 1-202-822-00 1-247-815-91 1-202-844-00 1-247-843-11 1-202-822-00 1-247-843-11 1-202-844-00 1-247-843-11 1-202-822-00 1-247-843-11 1-202-822-00 1-247-843-11 1-202-822-00 1-249-408-11 1-247-815-91 1-249-408-11	INDUCTOR INSISTOR > TRANSISTOR 2: TRANSISTOR BI TRANSISTOR 2: TRANSIST	SC2785-HFE F671-127 SA1091-0 SC2785-HFE F671-127 SA1091-0 SC2785-HFE F671-127 SA1091-0 SA733-K 8.2K 5 2.2K 10 220 5 180 5 330K 10 3.3K 5 2.2K 10 8.2K 5 2.2K 10 180 5 3.3K 5 2.2K 10	% 1/2W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F	C1803 C1804 C1807 CN1801 CN1803 D1802 IC1801 IC1802 JW1802 Z	1-137-368-11 1-126-964-11 1-137-366-11	FILM ELECT FILM ENECTOR > CONNECTOR, BO PIN, CONNECTO DE > DIODE RD10ESI > IC NJM78M09FI IC M5216P IK IC > LINK, IC 0.42 EISTOR > CARBON CARBON CARBON CARBON CARBON	0.0047 10MF 0.0022 DARD TO DR 3P B2 A (ICP- 150K 10K 10K	MF DOAR F10) 5% 5% 5%	1/4w 1/4w 1/4w 1/4w	50V 50V
Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q711 R704 R705 R706 R707 R709 R711 R712 R714 R715 R716	1-408-609-41 < TRA 8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-906-70 8-729-119-78 8-729-200-17 8-729-173-38 < RES 1-216-486-00 1-202-822-00 1-247-815-91 1-202-824-00 1-247-848-11 1-202-822-00 1-247-845-11 1-202-822-00 1-247-845-91 1-247-845-91	INDUCTOR INSISTOR > TRANSISTOR 2: TRANSIST	SC2785-HFE F671-127 SA1091-0 SC2785-HFE F871-127 SA1091-0 SC2785-HFE F671-127 SA1091-0 SA733-K 8.2K 5% 2.2K 10 220 5% 180 5% 330K 10 3.3K 5% 2.2K 10 8.2K 5% 18.2K 5% 18.2K 5% 2.2K 10	% 1/2W 1/4W % 1/2W % 1/4W % 1/4W % 1/4W % 1/4W % 1/4W	F	C1803 C1804 C1807 CN1801 CN1803 D1802 IC1801 IC1802 JW1802 Z	1-137-368-11 1-126-964-11 1-137-366-11	FILM ELECT FILM ENECTOR > CONNECTOR, BO PIN, CONNECTO DE > DIODE RD10ESI > IC NJM78M09FI IC M5216P IK IC > LINK, IC 0.42 EISTOR > CARBON CARBON CARBON CARBON CARBON	0.0047 10MF 0.0022 DARD TO DR 3P B2 A (ICP- 150K 10K 10K	MF DOAR F10) 5% 5% 5%	1/4w 1/4w 1/4w 1/4w	50V 50V

Les composants identifies par une trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked $ext{$\triangle$}$ are critical for safety. Replace only with the part number specified.



REF.NO.	PART NO.	DESCRIPT	ION		REMARK	REF.NO.	PART NO.	DESCRIPT	ION		REMARK
	*A-1642-174-A	D BOARD, CO				C640 C644	1-106-220-00 1-137-043-11	MYLAR FILM	0.1MF 0.0047MF	10% 10%	100V 400V
	4-201-023-01	SPACER, INS	ULATING			C647	1-162-116-00	CERAMIC	680PF	10%	2KV
	4-202-373-01 *4-203-258-01	SPRING, IC				C651 C800	1-102-228-00 1-137-368-11	CERAMIC FILM	470PF 0.0047MF	10% 5%	500V 50V
	1 100 100 01	LULDUM, LLD				C801	1-137-372-11	FILM	0.022MF	5%	50V
	< CAI	PACITOR >				C802	1-136-161-00	FILM	0.047MF	5%	50V
C502	1-102-824-00	CERAMIC	470PF	5%	50V	C804	1-136-165-00	FILM	0.1MF	5%	50V
C503 C504	1-136-165-00 1-102-824-00	FILM CERAMIC	0.1MF 470PF	5% 5%	50V 50V	C805 C806	1-136-207-11 1-104-999-11	FILM MYLAR	0.047MF 0.1MF	10% 10%	250V 200V
C506	1-126-941-11	ELECT	470MF	20%	25V	C807	1-136-109-00	FILM	0.68MF	5%	200V
C507	1-109-953-11	ELECT	2.2MF	20%	50 V	C808	1-137-205-11	FILM	0.1MF	5%	400V
C509	1-136-165-00	FILM	0.1MF	5%	50V	C810	1-107-683-11	ELECT	2.2MF	1 00.	250V
C510 C511	1-126-969-11 1-136-202-11	ELECT FILM	220MF 0.33MF	20 % 5%	50V 63V	C811 C812	1-102-212-00 1-136-125-00	CERAMIC FILM	820PF 0.68MF	10% 5%	500∀ 400∀
C513	1-106-220-00	MYLAR	0.1MF	10%	100V	C813	1-129-722-00	FILM	0.047MF	10%	630V
C514	1-136-165-00	FILM	0.1MF	5%	50 V	C814	1-136-565-11	FILM	0.015MF	3%	1.4KV
C515	1-126-941-11		470MF	20%	25V	C815	1-136-562-11	MYLAR	0.0082MF	10%	400V
C517 C518	1-126-941-11 1-102-228-00	ELECT CERAMIC	470MF 470PF	20% 10%	25V 500V	C816 C817	1-161-754-00 1-161-754-00	CERAMIC CERAMIC	0.001MF 0.001MF	10% 10%	2KV 2KV
C519	1-102-228-00	CERAMIC	470PF	10%	500V 500V	C818	1-162-134-11	CERAMIC	470PF	10%	2KV
C520	1-126-941-11	ELECT	470MF	20%	25V	C819	1-136-208-11	FILM	0.068MF	10%	250V
C521	1-107-698-11	ELECT	10MF	20%	25V	C820	1-102-114-00	CERAMIC	470PF	10%	50V
C522	1-126-964-11	ELECT	10MF	20%	50V	C821	1-162-114-00	CERAMIC	0.0047MF	•••	2KV
C523 C600 🕰	1-136-165-00 1-113-890-51	FILM	0.1MF 0.0022MF	5% 20%	50V 250V	C822 C824	1-107-662-11 1-123-024-21	ELECT ELECT	22MF 33MF	20%	250V 160V
C601 🗘	1-161-964-91		0.0047MF	200	250V	C829	1-124-902-00	ELECT	0.47MF	20%	50V
C602 🛦	1-161-964-91	CERAMIC	0.0047MF		250V	C830	1-124-902-00	ELECT	0.47MF	20%	50V
C603	1-125-555-11		330MF	20%	400V	C832	1-124-903-11	ELECT	1MF	20%	50 V
C604	1-126-968-11		100MF	20%	50V	C834	1-128-551-11		22MF	20%	25V
C605 C606	1-107-929-11 1-162-318-11	ELECT CERAMIC	10MF 0.001MF	20% 10%	100V 500V	C835 C836	1-162-318-11 1-162-117-00	CERAMIC CERAMIC	0.001MF 100PF	10% 10%	500∀ 500∀
C607	1-104-666-11	ELECT	220MF	20%	25V	C838	1-102-228-00	CERAMIC	470PF	10%	500V
C608	1-109-880-11	FILM	0.0015MF	3%	25V 2KV	C839	1-136-207-11	FILM	0.047MF	10%	250V
C611	1-102-228-00	CERAMIC	470PF	10%	500V	C845	1-102-115-00	CERAMIC	560PF	10%	50V
C612	1-111-160-11	ELECT	22MF	20%	100V	C901	1-101-810-00	CERAMIC	100PF	5%	500V
C613	1-124-347-00	ELECT	100MF	20%	160V	C902	1-137-372-11	FILM	0.022MF	5%	50V
C614	1-128-526-11		100MF	20%	25V	C903	1-137-372-11		0.022MF	5%	50V
C615 C616	1-111-067-11 1-111-067-11	ELECT ELECT	0.001MF 0.001MF	20% 20%	25V 25V	C904 C905	1-104-665-11 1-126-964-11	ELECT ELECT	100MF 10MF	20 % 20%	25V 50V
C617	1-128-339-11	ELECT	2200MF	20%	16V	C906	1-126-964-11	ELECT	10MF	20%	50V
C618	1-136-165-00	FILM	0.1MF	5%	50 V	C907	1-126-964-11	ELECT	10MF	20%	50V
C619	1-102-228-00		470PF	10%	500V	C908	1-126-964-11		10MF	20%	50V
C620 C621	1-102-228-00 1-136-165-00		470PF 0.1MF	10 % 5%	500V 50V	C911 C913	1-126-964-11 1-101-810-00	ELECT CERAMIC	10MF 100PF	20 % 5%	50V 500V
C622	1-107-925-11		1MF	20%	1007	C914	1-101-010-00		0.01MF	20	500V
C623	1-104-666-11		220MF	20%	25V	C915	1-136-166-00		0.12MF	5%	50V
C624	1-136-165-00		0.1MF	5%	50♥	C1200	1-136-165-00		0.1MF	5%	50V
C625	1-126-967-11		47MF	20%	50V	C1201	1-136-173-00		0.47MF	5%	50V
C626	1-104-666-11 1-126-964-11		220MF 10MF	20%	25V	C1202 C1203	1-136-173-00		0.47MF 0.22MF	5%	50V
C628 C629	1-111-097-11		2200MF	20% 20%	50V 35V	C1203	1-136-169-00 1-136-169-00		0.22MF	5% 5%	50V 50V
C630	1-111-097-11		2200MF	20%	35 V	C1205	1-101-005-00		0.022MF		50V
C631	1-126-965-11		22MF	20%	50V	C1206	1-101-005-00		0.022MF	0.00	50V
C632 C633 🗥	1-104-666-11 1-107-564-11		220MF 0.22MF	20% 20%	25V 300V	C1207 C1208	1-126-933-11 1-126-963-11		100MF 4.7MF	20 % 20%	16V 50V
C634 A	1-107-564-11		0.22MF	20%	300V	C1208	1-126-963-11	ELECT	4.7MF	20%	50V
C635 🛦	1-107-564-11	FILM	0.22MF	20%	300V	C1212	1-162-318-11	CERAMIC	0.001MF	10%	500V
C636 🗘	1-113-890-51	ELECT	0.0022MF	20%	250V	C1213	1-162-318-11	CERAMIC	0.001MF	10%	500V
C638	1-136-203-11	FILM	0.01MDF	5%	630V	C1214	1-126-933-11	ELECT	100MF	20%	16V



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Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1215	1-136-173-00		5% 50V	D815	8-719-908-03		
C1216 C1217	1-137-366-11 1-137-366-11		5% 50V 5% 50V	D817 D901		DIODE RD5.1ES-B2 DIODE SLA-570KT3F	
C1217	1-137-366-11		20% 16V	D901		DIODE MTZJ-T-77-9.1A	
V				D903		DIODE MTZJ-T-77-9.1A	
		INECTOR >		D904	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN600 A	1-508-786-00	PIN, CONNECTOR (5MM PITC	H) 2P	D905		DIODE MTZJ-T-77-9.1A	
		PIN, CONNECTOR (5MM PITCH PIN, CONNECTOR (POWER)	H) 3P	D906 D1201		DIODE MTZJ-T-77-9.1A DIODE RD3.9ES-B2	
CN800	*1-580-798-11	CONNECTOR PIN (DY) 6P		21101	0 715 105 71	DIODE RD313ED-DE	
CN801	*1-573-296-21	CONNECTOR, BOARD TO BOARD	D 10P		< FUS	E >	
CN803		TAB (CONTACT)				FUSE (H.B.C.) 5A/250V	
CN804 CN900		PIN, CONNECTOR 6P TERMINAL BLOCK, S 3P		<u> </u>	1-533-230-11	HOLDER, FUSE ; F601	
CN900		CONNECTOR, BOARD TO BOAR	D 50P		< FER	RITE BEAD >	
CN1401	*1-568-880-51	PIN, CONNECTOR 5P		TED COO	1 410 207 01	MEDDING DELD INDUMED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CN1403	1-564-511-11	PIN, CONNECTOR 8P		FB600 FB601		FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
CN1408		PIN, CONNECTOR 4P		FB602	1-410-397-21	FERRITE BEAD INDUCTOR	1.1 u h
	< DIC	ישרות .		FB604 FB605		FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
	ζ 1/10	<i>→</i>		FBOUS			
D500		DIODE RD5.1ES-B2		FB606		FERRITE BEAD INDUCTOR	
D502 D503		DIODE EGP20G DIODE EGP20G		FB607 FB608		FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
D504	8-719-991-33	DIODE 1SS133T-77		FB800		FERRITE BEAD INDUCTOR	
D505	8-719-982-03	DIODE MTZJ-3.6A			< IC	,	
D506		DIODE 1SS133T-77					
D507 D600		DIODE RD5.1ES-B2 DIODE D4SB60L		IC500 IC600	8-759-192-71	IC STV9379 IC STR-S6709	
D601		DIODE EM1-V1				IC TLP721 (D4-)	
D603	8-719-109-97	DIODE RD6.8ES-B2		IC602	8-749-920-61		
D604	8-719-046-75	DIODE EU-1-V1		IC603	8-759-144-82	IC μРС2405HF	
D605	8-719-302-43	DIODE EL1Z		IC604	8-759-510-52		
D606 D607	8-719-302-43	DIODE EL1Z DIODE EG-1Z-V1		IC806 IC800		IC LM2940T-9.0	
D607	8-719-302-06			IC900	8-759-103-93 8-747-905-11	RAY CATCHER ELEMENT SB	K1790-51
DC00				IC901	8-749-012-12		
D609 D610	8-719-301-64 8-719-046-74	DIODE RU4DS DIODE AU-01Z-V1		IC1200	8-759-250-68	TC TDA7264	
D611	8-719-045-48	DIODE FML-G12S		IC1201	8-759-502-21		
D612 D613		DIODE RU3YX-V1 DIODE FML-G12S			- 73.0	K SOCKET >	
D614 D615		DIODE FML-G12S DIODE EU-1-V1		Ј900 Ј1200	1-764-606-11 1-764-767-11		
D616		DIODE RD7.5ESB2		01200	1-/04-/0/-11	UACA, PIR	
D617		DIODE 188133T-77			< COI	L >	
D618	9-113-331-33	DIODE 188133T-77		L502	1-412-519-11	INDUCTOR 3.3UH	
D619		DIODE 1SS133T-77		L503	1-412-519-11	INDUCTOR 3.3UH	
D620 D622		DIODE 188133T-77 DIODE MTZJ-T-77-9.1A		L609 L611	1-412-533-21 1-412-527-11		
D625		DIODE 1SS133T-77		L612	1-412-522-41		
D626		DIODE AU-01Z-V1		L613	1-412-522-41		
D631	8-719-109-93	DIODE RD6.2ESB2		L613	1-412-529-11		
D800	8-719-991-33	DIODE 1SS133T-77		L616	1-412-533-21	INDUCTOR 47UH	
D801 D802		DIODE 1SS133T-77 DIODE 1SS133T-77		L801 L802		COIL, DRAM CORE (CDI) COIL, WITH CORE	
D803	8-719-908-03			1002			
D007	0 710 200 42	NTANE ET17		L803		COIL, AIR-CORE	n TMW
D807 D808	8-719-302-43 8-719-908-03			L804 L805		COIL, HORIZONTAL LINEA COIL, CHOKE 4.7MMH	KTII
D809	8-719-018-82	DIODE RGP02-20EL-6394		L809	1-412-533-21	INDUCTOR 47UH	
D810	8-719-302-43			L811	1-406-979-11	COIL, CHOKE 220UE	
D812	6-/13-038-49	DIODE FMS-3FU-LF027-1		L813	1-412-552-11	INDUCTOR 2.2MMH	
				1			

Les composants identifies par une trame et une marque 🗘 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked <u>A</u> are critical for safety.
Replace only with the part number specified.



REF.NO	. PART NO.	DESCRIPTION	RE	MARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
L901	1-408-603-31	INDUCTOR 100		ĺ	R608	1-216-365-00	METAL OXIDE	0.47	5%	2W	F
L902	1-408-603-31				R610	1-215-421-00		1K	1%	1/4W	•
L903	1-408-409-00	INDUCTOR 100			R611	1-216-354-11		2.7	5%	1W	F
L904	1-408-409-00	INDUCTOR 100			R612	1-249-428-11	CARBON	8.2K	5%	1/4W	•
11704	1-400-403-00	TWDOCLOK TOO			R613	1-249-417-11	CARBON	0.2K	5%	1/4W	
	∠ TC	LINK >			KOTO	1-243-41/-11	CARBON	TV	20	T/ 3M	
	(10	HIME >			R614	1-215-877-11	METAL OTTE	22K	5%	1W	F
PS600	1-532-686-91	LINK, IC 2.7A (ICE	_275\		R615	1-249-435-11	CARBON	33K	5%	1/4W	•
PS601		LINK, IC 2.7A (ICE			R616	1-215-471-00		120K	1%	1/4W	
PS602	A 1-532-606-91	LINK, IC 2.7A (ICE	-F/5/ -F/5\		R617	1-215-901-00		33K	5%	2W	F
PS603		LINK, IC 2.7A (ICE			R618	1-247-863-91	CARBON	22K	5%	1/4W	•
E D003	777 T-338-000-3T	DINK! IC 2:/A (ICE	-1131		WOTO	1-21/-003-71	CARDON	EEK	5-6	1/ 1/	
	/ TD2	NSISTOR >			R619	1-216-425-11	METAL OXIDE	56	5%	1W	F
	1 100	MDIDION >			R620	1-260-131-11	CARBON	470K		1/2W	•
Q501	8-729-119-78	TRANSISTOR 2SC2785	_UPP		R621	1-216-425-11		56	5%	1W	F
Q502	8-729-119-76	TRANSISTOR 2SA1175			R622	1-249-437-11	CARBON	47K	5%	1/4W	•
Q502	8-729-900-89	TRANSISTOR DTC144E			R623	1-249-429-11	CARBON	10K	5%	1/4W	
Q601	8-729-025-04	TRANSISTOR 2SC3852			MUZJ	1-217-127-11	CARDON	TOR	5.0	1/ 1/	
Q602	8-729-320-28				R624	1-249-393-11	CAPRON	10	5%	1/4W	7
Anny	U-143-34U-40	TAMBLUIUR ABRIUU!			R625	1-249-434-11	CARBON	27K	5%	1/4W	•
Q603	8-729-805-05	TRANSISTOR 2SC3601	-R		R626	1-249-430-11	CARBON	12K	5%	1/4W	
Q604	8-729-024-35	TRANSISTOR 2SC2808			R627	1-216-347-11		0.68	5%	1/2W	F
Q605	8-729-119-78				R628	1-249-415-11	CARBON	680	5%	1/4W	
Q605 Q606	8-729-900-65	TRANSISTOR DTA144E			AV40	T-523-213-11	ORADON.	000	70	T/ ZM	E
Q607	8-729-119-78	TRANSISTOR DIALYS			R629 ⚠	1-244-945-91	CARBON	1M	5%	1.2W	
2001	0-143-113-10	IMMOTOTOR 4004/00	-468		R630 🗘	1-218-265-21		8.2M		1.2W	
Q800	8-729-119-78	TRANSISTOR 2SC2785	_UPP		R631 ⚠	1-216-265-21		1.8	5%	10W	
Q801	8-729-017-06	TRANSISTOR 2SC2783			R632	1-247-807-31	CARBON	100	5%	1/4W	
Q801 Q802	8-729-016-32	TRANSISTOR 2SC4927			R633	1-247-807-31	CARBON	100	5%	1/4W	
Q802 Q803	8-729-119-80	TRANSISTOR 2SC2688			KOSS	1-24/-00/-31	CARDON	100	20	T/ ZM	
Q805	8-729-900-89				R634	1-249-397-11	CARBON	22	5%	1/4W	v
8002	0-123-300-03	INMIDIDION DICITIE	.D		R635	1-249-437-11	CARBON	47K	5%	1/4W	
Q900	8-729-119-78	TRANSISTOR 2SC2785	177		R636	1-249-437-11	CARBON	1K	5%	1/4W	
Q1200	8-729-119-78				R637		CARBON	220	5%	1/4W	
		TRANSISTOR DTC1437			R638	1-247-815-91 1-247-863-91	CARBON	22K	5%		
Q1201	8-729-900-74				KOJO	1-74/-003-31	CARBON	44K	3-6	1/4W	
Q1202	8-729-900-80	TRANSISTOR DTC114E			R639	1 215 420 00	Mana t	E 67	10.	1 / 410	
Q1203	8-729-900-74	TRANSISTOR DTC1437	5		R642 A	1-215-439-00		5.6K		1/4W	
01204	8-729-900-74	TRANSISTOR DTC1437	ıa		R645	1-205-949-11	CARBON	2.7K	5% 5%	10W 1/4W	
Q1204	0-/43-300-/4	IKANSISIUK DICI431	Đ		R646	1-249-377-11	CARBON	0.47	5%		7
	4 770	SISTOR >			R647	1-202-933-61		0.1	วช 10%	1/4W 1/2W	
	(KES	ISIUK >			KOZ/	1-202-333-01	LOSIDHE	0.1	TOP	1/24	•
R500	1-215-457-00	METAL 33K	1% 1/4W		R649	1-249-426-11	CARBON	5.6K	5%	1/4W	7
R502	1-249-421-11				R800	1-249-421-11		2.2K		1/4W	•
R503	1-249-429-11		5% 1/4W		R802	1-247-863-91		22K	5%	1/4W	
R504	1-215-455-00	METAL 27K	1% 1/4W		R803	1-249-424-11	CARBON	3.9K	5%	1/4W	
R505	1-249-382-11		5% 1/4W F	7	R805	1-249-429-11	CARBON	10K	5%	1/4W	
MJVJ	T-817-JUE-TT	VALLED I. A	20 T/ZH E	•	AUUJ	~-827-26J-TT	-ALLOW	TVR	5.0	T/ ZH	
R506	1-215-439-00	METAL 5.6B	1% 1/4W		R809	1-247-891-00	CARBON	330K	5%	1/4W	
R507	1-215-888-00		. 10 1/44 5% 2W E	7	R812	1-249-421-11	CARBON	2.2K		1/4W	
R508	1-216-371-00	METAL OXIDE 1.5	5% 2W E		R813	1-215-867-00	METAL OXIDE	470	5%	1W	F
R509	1-249-443-11				R814	1-249-411-11		330	5%	1/4W	-
R510	1-249-443-11		5% 1.4W F		R816	1-215-917-11		1K	5%	3W	F
	_ 41, 11, 11		TV ATT E			/#!-##	value		- 0	-"	-
R520	1-215-457-00	METAL 33K	1% 1/4W		R817	1-216-481-11	METAL OTTOR	1.2K	5%	3W	F
R521	1-215-455-00	METAL 27K	1% 1/4W		R818	1-215-882-00		22	5%	2W	F
R522	1-247-863-91		5% 1/4W		R819	1-216-345-11		0.47	5%	1W	F
R523	1-247-863-91		5% 1/4W		R820	1-249-403-11	CARBON	68	5%	1/4W	•
R524	1-249-425-11				R821	1-215-909-11		47	5%	3W	F
	125 11					,,, 11	VALUA		••	•	-
R525	1-249-425-11	CARBON 4.71	5% 1/4W		R822	1-215-868-00	METAL OXIDE	680	5%	1W	F
R526	1-249-421-11	CARBON 2.21			R824	1-249-420-11	CARBON	1.8K		1/4W	-
R527	1-215-437-00		1% 1/4W		R826	1-247-752-11	CARBON	1K	5%	1/2W	
R600	1-216-490-11		5% 3W E	7	R827	1-249-425-11	CARBON	4.7K		1/4W	
R601	1-249-417-11		5% 1/4W	•	R828	1-249-430-11		12K	5%	1/4W	
WAAT	T M T / - IT / - TT		JU 1/20		nom o	- may 19V-11			- 0	-/ 211	
R602	1-215-473-00	FILM 150m	15 1/4W		R829	1-249-493-11	CARBON	56K	5%	1/2W	
R603	1-215-898-11		5% 2W F	7	R830	1-217-778-11	FUSIBLE	1K	5%	1W	F
R604	1-249-420-11		5% 1/4W	•	R833	1-247-887-00		220K		1/4W	-
R605	1-216-362-11			7	R835	1-216-471-11		27 27	5%	3W	F
R607	1-216-421-11		5% 1W F		R836	1-249-439-11		68K	5%	1/4W	•
MVV/	T-87A-49T-TT	minu vaive ii	JO IN E	•	W020	#1/-TJ/-11		UUR	5.0	-/ zn	



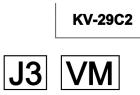
Les composants identifies par une trame et une marque $\hat{\bot}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked \hat{x} are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
			_									
R837	1-249-427-11		6.8K	5%	1/4W			< TRA	NSFORMER >			
R840	1-247-807-31	CARBON	100_	5%	1/4W							
R841	1-249-418-11	CARBON	1.2K	5%	1/4W	_		1-421-776-21				
R842 R843	1-249-441-11 1-249-441-11	CARBON CARBON	100K 100K	5% 5%	1/4W 1/4W	r F	LF601 <u>/</u>	1-421-776-21	LFT			
AUIJ	1-217-111-11	CARDON	IUUK	J*	1/ IN	•	T601 📝	1-429-604-11	TRANSFORMER,	CONVERTER		
R846	1-247-885-00	CARBON	180K	5%	1/4W		T800		TRANSFORMER,		MT)	
R847	1-247-895-91	CARBON		5%	1/4W			1-453-169-11		ASSY, FLYBA	CK (UX-1	.60 4A 2)
R849	1-249-429-11	CARBON	10K	5%	1.4W		T804	1-437-090-31	HDT			
R850 R851	1-249-425-11 1-215-898-11	CARBON METAL OXIDE	4.7K 10K	5% 5%	1/4W 2W	F		∠ गणा	RMISTOR >			
MUJI	1-213-070-11	MEIAL VALUE	TOK	30	411	•		, III	MAIDION >			
R852	1-249-432-11		18K	5%	1/4W		THP600 🗘	1-809-827-11	THERMISTOR,	POSITIVE		
R900	1-247-815-91	CARBON	220	5%	1/4W							
R901		CARBON	39 20	5%	1/2W		******	***********	***********	**********	******	*******
R902 R904	1-247-734-11 1-249-389-11	CARBON CARBON	39 4.7	5% 5%	1/2W 1/4W	P		*A-1649-017-A	K BOARD, COM	DI.ETE		
M701	1 11, 30, 11	OILL DOIL	•••	•	-/ -"	•		11 1015 017 11	******			
R905	1-247-804-11	CARBON	75	5%	1/4W							
R906	1-247-804-11	CARBON	75	5%	1/4W			7-682-548-04	SCREW +P 3X8			
R907	1-247-804-11	CARBON CARBON	75 4 7	5% 5%	1/4W 1/4W			a Chi	A CTTOD			
R908 R909	1-249-401-11 1-249-429-11	CARBON	10K	5%	1/4W			₹ CAP	ACITOR >			
-15 4 5				••	-,		C280	1-126-963-11	ELECT	4.7MF	20%	50V
R910	1-249-422-11		2.7K	5%	1/4W		C281	1-126-963-11		4.7MF	20%	50V
R911	1-249-426-11	CARBON	5.6K	5%	1/4W		C282	1-130-831-21		0.56MF	10%	63V
R912 R913	1-249-429-11 1-247-863-91	CARBON CARBON	10K 22K	5% 5%	1/4W 1/4W		C283 C284	1-126-963-11 1-124-557-11	ELECT ELECT	4.7MF 1000MF	20% 20%	50V 25V
R914	1-249-437-11	CARBON	47K	5%	1/4W		CAUT	1-124-33/-11	BIBCI	TOUCHE	200	231
				••	-,		C285	1-124-557-11	ELECT	1000MF	20%	25V
R919	1-249-437-11		47K	5%	1/4W		C286	1-101-006-00	CERAMIC	0.047MF		507
R921	1-249-437-11 1-247-807-31	CARBON CARBON	47K	5%	1/4W		C287	1-136-165-00	FILM CERAMIC	0.1MF	5% 10%	50V
R922 R923	1-249-412-11	CARBON	100 390	5% 5%	1/4W 1/4W		C288 C289	1-102-074-00 1-126-962-11	ELECT	0.001MF 3.3MF	10% 20%	50V 50V
R924	1-202-731-00	SOLID	10M	10%	1/2W		0207	1 110 701 11		JIJML	200	501
							R287	1-101-006-00	CERAMIC	0.047MF		50V
R925	1-247-807-31		100	5%	1/4W							
R1200 R1201	1-249-425-11 1-249-434-11	CARBON CARBON	4.7K 27K	5% 5%	1/4W 1/4W			< CON	INECTOR >			
R1201	1-249-389-11	CARBON	4.7	5%	1.4W	F	CN223	*1-568-878-51	PIN. CONNECT	OR 3P		
R1203	1-249-421-11	CARBON	2.2K	5%	1/4W	-	CN225	*1-564-511-11				
R1204	1-249-421-11	CARBON		5%	1/4W			< IC	>			
R1205 R1206	1-249-428-11 1-249-428-11	CARBON CARBON	8.2K 8.2K	5% 5%	1/4W 1/4W		IC271	8-759-988-94	TC TDA2050			
R1207	1-249-413-11	CARBON	470	5%	1.4W		102/1	0 755 500 51	10 10111100			
R1208	1-212-849-00	Fusible	4.7	5%	1/4W	F		< TRA	NSISTOR >			
B1000	1 010 040 00		4 =	F0.	1/40-	_	0000	0 000 000 00	mn.wa=a=a= -	MG1 / / T-C		
R1209 R1210	1-212-849-00 1-249-413-11	FUSIBLE CARBON	4.7 470	5% 5%	1/4W 1.4W	f	Q203 Q204	8-729-900-89 8-729-900-80	TRANSISTOR D			
R1211	1-249-424-11	CARBON	3.9K	5%	1/4%	i	Q205	8-729-119-78	TRANSISTOR 2			
R1212	1-249-424-11		3.9K	5%	1/40							
R1213	1-249-421-11	CARBON	2.2K	5%	1/4W			< RES	SISTOR >			
R1216	1-249-413-11	CADDON	470	5%	1/4W		R280	1-249-431-11	CADRON	15K 5%	1/4W	
R1217	1-249-425-11		4.7K		1/4W		R281	1-249-431-11		15K 5%	1/4W	
				••	-,		R282	1-249-426-11		5.6K 5%	1/4W	
	< REL	AY >					R283	1-249-435-11		33K 5%	1/4W	
DWC00 ^	. 1 7EE A1A 11	DET LU					R284	1-249-440-11	CARBON	82K 5%	1/4W	
KIOUU /	1-755-018-11	KELAI					R285	1-249-417-11	CARBON	1K 5%	1/4W	
	< SWI	TCH >					R286	1-249-429-11		10K 5%	1/4W	
	4		/n = -				R288	1-216-357-00		4.7 5%	1W	F
	1-571-433-21			WER)			R289	1-249-429-11		10K 5%	1/4W	
5900 5901		SWITCH, TACT:					R290	1-247-897-11	CARBON	560K 5%	1/4W	
8901 8902		SWITCH, TACTI					R291	1-249-425-11	CARBON	4.7K 5%	1/4W	
-			_					·			-, - <i></i>	
	< SPA	RK GAP >										
SG801	1-519-422-11	CAD CDADY										
DGOOT	JIJ-766-II	ORF DEREN										

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J3



										V	1 V I
REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
	*A-1651-087-A	J3 BOARD, CO	MPLETE *****			Q1708 Q1709		TRANSISTOR 25			
	< CAP	PACITOR >					< RES	SISTOR >			
C291	1-101-005-00	CERAMIC	0.022MF		50V	R1701	1-249-417-11		1K 5%	1/4W	
	< CON	INECTOR >				R1702 R1703	1-249-417-11 1-249-421-11	CARBON	1K 5% 2.2K 5%	1/4W 1/4W	
CN203	*1-564-518-11	מו.ווני ממווופים	יד∩ס פס			R1704 R1705	1-249-415-11 1-247-815-91		680 5% 220 5%	1/4W 1/4W	
CN204	1-537-339-11					R1705	1-247-815-91		220 5%	1/4W	
	< COI	IL >				R1708	1-249-412-11	CARBON	390 5%	1/4W	
L200	1-402-711-11	INDUCTOR, WI	DEBAND			R1712 R1713	1-260-311-11 1-249-384-11	CARBON	39 5% 1.8 5%	1/2W 1/4W	
******	***********	*********	*******	******	******	R1714	1-249-414-11	CARBON	560 5%	1/4W	r
	*A-1644-070-A	VM BOARD, CO	MPI.RTR			R1715 R1716	1-249-432-11 1-249-417-11		18K 5% 1K 5%	1/4W 1/4W	F
		*********				R1717	1-216-476-11	METAL OXIDE	180 5%	3W	
	*4-368-683-11	SPRING, TRAN	SISTOR			R1718 R1719	1-249-432-11 1-249-384-11		18K 5% 1.8 5%	1/4W 1/4W	F
	4-382-854-11	SCREW (M3X10), P, SW(+)			R1720	1-249-400-11	CARBON	39 5%	1/4W	F
	< CAP	PACITOR >				R1721 R1722	1-249-414-11 1-249-401-11	CARBON	560 5% 47 5%	1/4W 1/4W	
C1701	1-126-933-11		100MF	20%	16V	R1724	1-249-400-11	CARBON	39 5%	1/4W	
C1702 C1703	1-128-551-11 1-126-933-11		22MF 100MF	20% 20%	25V 16V	R1725	1-216-451-11	METAL OXIDE	120 5%	2W	F
C1704	1-107-357-11	FILM	0.47MF	5%	100V	R1728	1-249-413-11		470 5%	1/4W	
C1705	1-107-638-11	ELECT	33MF	20%	160V	R1729 R1730	1-249-413-11 1-249-422-11		470 5% 2.7K 5%	1/4W 1/4W	
C1706	1-104-999-11		0.1MF	5%	200V	R1731	1-249-411-11		330 5%	1/4W	
C1707 C1708	1-137-397-11 1-137-364-11		0.047MF 0.001MF	5% 5%	100V 50V	******	***********	**********	*******	*****	******
C1709	1-137-364-11		0.001MF	5%	50V						
C1710	1-102-074-00		0.001MF	10%	50V						
C1720 C1721	1-107-667-11 1-137-397-11		2.2MF 0.047MF	20 % 5%	160V 100V						
C1722	1-126-934-11	ELECT	220MF	20%	16V						
C1723 C1725	1-161-830-00 1-128-551-11		0.0047MF 22MF	20%	500V 25V						
C1726	1-126-934-11		220MF	20%	16V						
		INECTOR >									
CN1015	*1-568-880-51		OD ED								
CN1718	1-774-418-11			RD 8P							
	< DIO	DE >									
D1701	8-719-991-33	DIODE 1SS133	T-77								
D1702 D1703	8-719-110-88	DIODE RD39ES DIODE RD39ES									
D1703			-D2								
	< COI	IL >									
L1701	1-408-409-00	INDUCTOR	10UH								
L1702 L1703	1-408-403-00 1-408-409-00	INDUCTOR INDUCTOR	3.3UH 10UH								
L1704 L1705	1-408-418-00 1-408-418-00	INDUCTOR INDUCTOR	56UH 56UH								
MA / VJ		INSISTOR >	J V VIII								
Q1701 Q1702	8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2									
Q1703	8-729-017-05	TRANSISTOR 2	SA1837								
Q1704 Q1706	8-729-119-78 8-729-017-06	TRANSISTOR 2 TRANSISTOR 2									
**						T .					

Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked \triangle are critical for safety. Replace only with the part number specified.

REF.NO. PART NO. DESCRIPTION REMARK REF.NO. PART NO. DESCRIPTION REMARK

MISCELLANEOUS

	Æ	1-406-807-11	COIL, DEGAUSSING
		1-452-032-00	MAGNET, DISK; 10MM Ø
		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø
	À	1-453-169-11	TRANSFORMER ASSY, FLYBACK (NX-1604A2)
		1-504-146-11	SPEAKER (5x11CM)
	\triangle	1-571-433-21	SWITCH, PUSH (AC POWER)
		1-693-338-11	TUNER/VIF (AEP) (KV-29C2A/29C2D/29C2E/29C2K/29C2R)
		1-693-340-11	TUNER.VIF (FR) (KV-29C2B)
	A	1-751-680-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V (KV-29C2A/29C2B/29C2D/29C2E)
	Æ	1-690-270-21	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-29C2K/29C2R)
	À	1-775-045-11	CONNECTOR, DEFLECTION YOKE (DOUBLE)
	\triangle	8-451-467-31	DEFLECTION YOKE (Y29GXA2-B2)
		8-453-005-11	
V901		8-733-856-05	
	À	8-733-856-51	ITC 29GX2-A1 (NO LEAD)

ACCESSORIES AND PACKING MATERIALS

1-544-767-11	SPEAKER (13CM)
1-696-554-11	CABLE, SPEAKER (WITH PLUG)
4-039-358-01	SCREW (4X16), (+) BV TAPPING
*4-203-485-01	CUSHION (LOWER) (ASSY)
*4-203-486-01	CUSHION (RIGHT) (ASSY)
-4-703-400-AT	CUSHION (RIGHI) (ADDI)
*4-203-487-01	INDIVIDUAL CARTON
*4-395-957-01	BAG, PROTECTION
4-203-521-41	MANUAL, INSTRUCTION (KV-29C2A) (ITALIAN)
4-203-521-51	MANUAL, INSTRUCTION (KV-29C2B)
	(FRENCH/GERMAN/ITALIAN/DUTCH)
	(1 1111/01) (1111111) 20101)
4-203-521-11	MANUAL, INSTRUCTION (KV-29C2D)
4-203-321-11	(DUTCH/GREEK/ENGLISH/GERMAN/TURKISH)
4 000 501 51	
4-203-521-71	MANUAL, INSTRUCTION (KV-29C2E) (SPANISE)
4-203-521-81	MANUAL, INSTRUCTION (KV-29C2E)
	(PORTUGUESE/FINNISH/DANISH/NORWEGIAN/
	SWEDISH)
	,
4-203-521-91	MANUAL, INSTRUCTION (KV-29C2K/29C2R)
1 200 522 52	(CZECH/ENGLISH/POLISH/BULGARIAN/
- 4680 084 -	RUSSIAN)
A-1678-054-A	BOX ASSY, WOOFER

REMOTE COMMANDER

1-473-692-11 COMMANDER, STANDARD TYPE (RM-862)